

Third Generation Partnership Project

DRAFT MEETING REPORT v2.0.0

3GPP TSG-CN#16

Marco Island, U.S.A
5th - 7th June, 2002



Hosted by Motorola



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CN Chairman's Executive Summary

IMS work in CN has been completed except for the documented open issues. All planned CN IMS specifications except for 23.278 and 29.278 are now under change control and functionally frozen. There are still outstanding IETF dependencies which are promised by June 14. The MCC will incorporate the available RFC numbers as of June 14th. Those not available will have to be fixed in CRs at the subsequent CN WG meetings.

After analysis in CN3, it was decided that no intermediate version of 23.163 (IMS<->CS interworking) will be produced.

AMR-WB and SCUDIF were completed. Network sharing and protocol work for the Ze (Key Distribution for MAP) was not completed. A decision needs to be made by SA whether or not these stay in Rel-5. SA must also decide which release CAMEL for IMS falls into.

Rel-6 work items were initiated for:

- Bearer Independent Architecture in the PS Domain
- Interworking of CS user plane between 3GPP and external PLMN/PSTN/ISDN
- MBMS

The CN4 agreed approach to handling IPv4/IPv6 interworking was agreed, with a strengthened warning to not use IPv6 addresses in pre-Rel5 GPRS.

The results from the OHG IP CN Harmonization Workshop were discussed and a CN position was generated. This position can be found in NP-020304.

The ITU-T Coordination Ad-Hoc produced a recommendation on how the SDOs should respond to the ITU-T SSG request from Release 4 references. This recommendation is in NP-020322.

Thanks were given to all the delegates, chairs, vice-chairs, and secretaries in both the 3GPP and the IETF who worked so hard to complete release 5 in general and IMS in particular.

1 Opening, of the meeting

Mr. Niels Andersen of Motorola welcomed the delegates to Marco Island on behalf of the hosts [Motorola]. The meeting was chaired by Mr. Stephen Hayes, (Chair, Ericsson). Additional support was provided by Mr. Ian Park (Vice-Chair, Vodafone), Mr. Kunihiko Taya (Vice-Chair, NEC), and Mr. David Boswarthick (CN Secretary, MCC).

2 Approval of the agenda

- NP-020140 Draft agenda for CN #16 meeting, Korea. MCC. **APPROVED.**
- NP-020141 Allocation of documents to agenda items (start of day 1). Source: CN vice-chairman. **NOTED.**
- NP-020142 Allocation of documents to agenda items (end of day 1). Source: CN vice-chairman. **NOTED.**
- NP-020143 Allocation of documents to agenda items (end of day 2). Source: CN vice-chairman. **NOTED.**
- NP-020144 Allocation of documents to agenda items (end of day 3). Source: CN vice-chairman. **NOTED.**

3 IPR declarations

The Chairman reminded delegates of the fact that 3GPP Individual Members have the obligation under the IPR Policies of their respective Organizational Partners to inform their respective Organizational Partners of Essential IPRs they become aware of.

The delegates were invited:

- ?? to investigate in their company whether their company does own IPRs which are, or are likely to become Essential in respect of the work of TSG_CN and the CN working groups
- ?? to notify the Director-General or chairman of their respective Organizational Partners, of all potential IPRs that their company may own, by means of the IPR Statement and the Licensing declaration forms

4 Meeting Reports

4.1 Report from CN#15 meeting

- NP-020145 Draft report from CN #15 meeting, Jeju. Source: MCC. **APPROVED.**

4.2 Reports from other groups

no input

4.3 IETF coordination report

- NP-020156 Bundle 2 and 3 RFC numbers from IETF. Source: CN chairman.

Content: RFC numbers have been allocated by the RFC editors. All of these specifications have been approved and are proposed standards track documents. Please Note that this is just an early release of the numbers done for the 3GPP. RFC publication will follow at normal pace. The drafts will be available as part of the normal RFC editing process. The technical content of the RFC will be the same as the final draft version.

The RFC numbers contained in this document are part of the **bundle 2 package**. No bundle 3 or 4 deliverables are yet available.

Comments: It was mentioned that this is the only set of RFC numbers that CN will receive during the week of NP#16.

NOTE, the RFCs are not yet available - only the RFC numbers have been allocated. Companies are requested not to publicise overtly as the RFC editors do not want requests for these RFCs before they are ready.

Also Ileana Leuca will step down from the role of 3GPP IETF coordinator. The future role will be discussed in SA#16.

Status: **NOTED.**

- NP-020159 IETF deliverable status preceding the CN#16 plenary. Source: CN chairman.

Content: Includes the status of the IETF deliverables so far.

Comments: Only Bundle 2 RFCs have been provided so far. RFC numbers for those in bundles 3 & 4 (which have no *comments otherwise*) are still **expected by June 14**.

For those RFC numbers that are provided by 14th June - MCC is given permission to include the RFC numbers when they become available as an editorial change to the 3GPP specifications.

If a RFC does not get a RFC number by the cutoff date, a CR will be made to the TS as an essential correction in order to update the reference.

Stephen gave thanks to the IETF on the hard work that they have been doing for 3GPP. The PCG have recommended a communication to the IETF thanking them for the work they have done in completing the 3GPP dependencies.

Status: **NOTED.**

4.4 IP CN harmonization workshop report

NP-020157 **Harmonizing the IP Core Network.** *Source: Ms. Betsy Kidwell Chair, 3GPP2 TSG-N*

Content: Contains correspondence expressing the 3GPP2 TSG-N resolve to achieve harmonization. 3GPP2 TSG-N is interested in pursuing relationships with several of the 3GPP WGs (i.e., SA1, SA2, CN1) to achieve harmonization in the areas of access independent IMS and IP Services.

3GPP2 TSG-N is currently reviewing 3GPP Release 5 materials with the intent of adopting as much as possible for the 3GPP2 IMS and IP Services text.

3GPP2 TSG-N invite 3GPP WGs to attend a workshop to continue discussions. The purpose of the workshop is to establish a strategy and working agreement for collaboration on a set of common specifications for Release 6 and beyond. A proposed agenda is contained in the contribution.

Comments: Ian Park [Vodafone] suggested that harmonisation should not be limited to 3GPP2 TSG-N and 3GPP TSG CN. Work is needed between 3GPP CN WG4 and 3GPP2 TSG-P in the area of DIAMETER. Betsy Kidwell suggested a correspondence between CN and 3GPP TSG-P to highlight this issue.

Status: **NOTED.**

NP-020158 **3GPP2 IP Multimedia Domain.** *Source: Ms. Betsy Kidwell Chair, 3GPP2 TSG-N*

Content: Contains a presentation on the structure of 3GPP2 and specifically 3GPP2 TSG-N. Also outlines the 3GPP2 multimedia domain, and a proposal for future discussion / coordination.

Comments: Stephen Hayes [CN Chair] stated that the intended outcome of the discussions on these two documents is that TSG-CN come to an agreement on a recommendation that should be presented to TSG-SA for approval.

Steve Mecrow [mmO2] asked why 3GPP2 member companies (who are generally also 3GPP member companies), cannot simply provide 3GPP2 related input to 3GPP in the traditional way. Niels Andersen [TSG SA chair - Motorola] supported not modifying the existing 3GPP working procedures. Traditionally 3GPP have tried to discourage the 3GPP partners from contributing to the technical work in the name of the SDO. The preferred method in 3GPP is for the member companies to bring contributions to 3GPP meetings.

Niels added that the use of joint meetings should only be to resolve a blocking issue in a specific area, NOT to co-ordinate work between groups (partners / PPs etc.)

Iain Sharp [Nortel] commented that 3GPP should work toward creating a Rel-6 IMS that is adaptable to both 3GPP and 3GPPs. i.e. Radio access independent.

Steve Mecrow [mmO2] suggested that 3GPP2 member companies should be encouraged to become members of 3GPP, (and vice versa).

It was clarified that work in 3GPP is done under the authority given by work items. Stephen Hayes [CN Chair] indicated that this process should be followed, but it is not the intention to have a global 3GPP "Harmonization" work item.

Harald Dettner [Siemens] had concerns with the work being duplicated in both partnership projects. Iain Sharp [Nortel] clarified that some parts of IMS would be common between the two PPs. This common part would be developed in 3GPP and referenced by 3GPP2. The development of this common part would be done in 3GPP by interested member companies within 3GPP.

Keith Drage [Lucent] suggested splitting out the common parts of the IMS into separate specifications.

It was mentioned that identifying what parts of IMS could be common would require a great deal of work. It would be desirable to remove from the common IMS part elements that are not used in 3GPP2 (GPRS and radio access technologies) as well as making the common IMS radio access independent.

Summary of discussion:

- Support for member companies (of both partnership projects) having discussions to harmonize the input to both partnership projects.**
- No support for 'formal' joint meetings between 3GPP and 3GPP2 (within the scope of 3GPP)**

- ☒ **No support to modify present 3GPP working procedures.**
- ☒ **Proposal to continue with the use of Work items for new 3GPP features**
- ☒ **3GPP2 members could be invited as 3GPP guests for a limited period (and vice versa)**
- ☒ **3GPP2 members interested in IMS development are encouraged to become members of 3GPP (and vice versa)**

The output of this discussion will be sent to SA#16 in an **LS [NP-020299]**

Status:

NOTED.

NP-020299 LS OUT to TSG SA on " Recommendations for Implementing CN Harmonization ". Source: TSG CN Chair

Content: Contains an LS to TSG SA on the harmonisation between 3GPP and 3GPP2. Contains the following recommendations.

- The primary mechanism for coordination of the IP CN between 3GPP and 3GPP2 should be via joint participation in each other's meetings. The responsibility for ensuring harmonization would be up to individual members attending both meetings.
- Harmonized work is best accomplished by having work done in a single body. Common parts of IMS should be developed in the 3GPP. 3GPP should extend guest status to those 3GPP2 companies that are not members in 3GPP. However, 3GPP2 companies who wish to participate for an extended time are encouraged to join the 3GPP. 3GPP2 is encouraged to extend similar courtesies to 3GPP member companies.
- Work furthering harmonization should be driven via work items introduced by the normal 3GPP process. Work items furthering access independence and IP transport independence in IMS are encouraged
- 3GPP should attempt to avoid meeting collisions with 3GPP2 where possible, to facilitate attendance by 3GPP2 individuals.
- Additional communication channels should be utilized. In particular, 3GPP2 individuals are encouraged to subscribe to the relevant 3GPP e-mail lists. 3GPP should also ensure that it is possible to send liaisons to appropriate groups within 3GPP2.

Comments: David Williams [Qualcomm] stated that the overhead slide generated during the discussion on day 1 was much clearer and suggested the use of a simpler and more direct form. Ian Park [Vodafone] disagreed, saying that the LS will also be visible to the outside world (inc. 3GPP2) and 3GPP should not give the wrong impression to 3GPP2 about our approach to harmonisation.

The compromise was adopted, and the wording of the existing LS was modified, more specifically to reflect that there is no plan to have additional joint technical meetings between the two PPs. However the possibility of future collaboration workshops is not ruled out completely.

The point of trying to avoid meeting collisions needs to be made bi-directional; we should also specify in more detail which (working) groups need to avoid meeting clashes.

Status:

REVISED to 0302.

? REVISED ?

NP-0200302 LS OUT to TSG SA on " Recommendations for Implementing CN Harmonization ".

Comments: Textual clarifications were made to the text of bullet 4.

Status: **REVISED to 0304.**

? REVISED ?

NP-0200304 LS OUT to TSG SA on " Recommendations for Implementing CN Harmonization ".

Status: **APPROVED.**

NP-020274 An Open Letter to the Chairmen of 3GPP & 3GPP2. Source: OHG.

Content: Contains an open letter from Mike Walker OHG chairman, expressing the sincere thanks of OHG to the two Co-Chairs of the IP CN Harmonization Workshop held recently in Toronto, Canada. OHG whole-heartedly endorses the recommendations outlined in the output document from the meeting; they would like to further elaborate the following points:

OHG applaud the recommendation that duplication of work between two PPs should be avoided.

- ☒ The two Partner Projects should work together to establish a common long term vision and evolution strategy.
- ☒ OHG encourage the use of a joint session on vision and evolution, perhaps during the autumn of this year.
- ☒ OHG would encourage the PPs to invite ITU SSG to be part of such a meeting.

☒ OHG anticipate that, the PPs will create work items in the respective groups to carry out the work that was outlined in the recommendation of the workshop.

Comments: Stephen Hayes [CN chair], presented the background of the harmonisation meeting and the results of the workshop.

Status: **NOTED.**

NP-020275 An Open Letter to the Chairmen of 3GPP & 3GPP2. *Source: assorted Vendors*

Content: The named vendors add their support for the output of the IP CN Harmonization Workshop.

Status: **NOTED.**

NP-020303 Draft meeting minutes from PCG. *Source: PCG secretary.*

Status: **NOTED.**

4.5 CN Chairman's report

No input.

5 Incoming liaisons

5.1 From TSG-CN working groups

NP-020149 LS on 3GPP specific Diameter applications [N4-020732]. Source: CN4

Content: CN4 have agreed to develop the protocols for Cx, Dx and Sh interfaces as IETF vendor specific Diameter applications, where the vendor is 3GPP. The vendor identifier assigned by IANA to 3GPP (<http://www.iana.org/assignments/enterprise-numbers>) is 10415.

If other TSG WGs make use of Diameter and develop their own applications, we face the risk of problems in the management of the namespaces (application identifiers, command codes, AVP codes, result codes) that would lead to interoperability problems. Currently, CN4 is not aware of any other TSG WG developing such applications.

In this LS it is requested that CN4 be allowed to manage the namespace for the IETF vendor specific Diameter application, where the vendor is 3GPP. The concrete mechanism is to be co-ordinated with/established by the MCC.

Comments: There was agreement within TSG CN that CN WG4 be allowed to manage the namespace for DIAMETER.

John Meredith of the MCC took the action to examine the mechanism that needs to be created to manage the Diameter namespace. **Stephen will inform SA#16 of this decision.**

David Boswarthick of the MCC mentioned that the issue of 3GPP registration of namespace to IANA is broader than only DIAMETER and suggested that the mechanism of control needs to encompass all 3GPP requests for namespace to IANA.

John Meredith (MCC) reminded the meeting that 3GPP has no legal status and as such requests to IANA from 3GPP are possibly subject to legal challenge.

Status: **NOTED.**

NP-020155 Liaison Statement on 3GPP Network Domain Name usage for IMS [N1-021455]. Source: CN1

Content: It has been identified that a (root) domain is needed by 3GPP for MCC/MNC based address resolution for Rel-5 IMS. ETSI MCC has reserved the domain name 3gppnetwork.org for 3GPP for this purpose.

CN1 request GSMA to note that domain name3gppnetwork.org has been reserved for 3GPP to support MCC/MNC based address resolution as reflected in TS 23.003 for Release 5. GSMA is kindly asked to progress the relevant practical issues associated in the DNS database management aspects to help in the rollout process of the IMS

Status: **NOTED.**

NP-020150 LS on Status of protocol work on Ze interface [N4-020769]. Source: CN4

Content: In this document CN4 informs SA3 and CN that CN4 is not able to finalize the protocol work on the Ze interface in the June 2002 time frame. CN4 cannot give an estimation of the date for completion of the required work until CN4 has further analysed the requirements from SA3.

Comments: The reasonable estimate for completion of this work is December 2002. This LS will also be presented to SA#16.

Harald Dettner [Siemens] preferred that this work be pushed back to Rel-6, as a delivery of work in December 2002 means Rel-5 cannot be closed until that time. TSG CN will simply inform TSG SA of the uncertainty around the completion time and let them take the decision on where this feature should be contained. **Stephen will inform SA#16 of this decision.**

Status: **NOTED.**

NP-020153 Liaison Statement on "IPv6 update of stage 3 specifications" [N3-020361]. Source: CN3

Content: In this LS, CN3 requests clarification from SA2 on several issues relating to IPv6 updates to the stage 3 specifications.

Comments: The response from SA2 is contained in NP-020151, which was **NOTED.**

Status: **NOTED.**

5.2 From other 3GPP groups

NP-020148 SA1 Position Statement related to ITU-T request for information on activities related to Emergency Telecommunications Services (ETS) [S1-021190]. Source: SA1.

Status:	WITHDRAWN.
NP-020151	Response to the LS on "IPv6 update of stage 3 specifications" [S2-021521]. Source: SA2
Content:	In this LS, SA2 provide the responses to the questions raised in the CN3 LS [NP-020153]
Comments:	The CR relating to this work has been done by CN3 and is presented to this meeting.
Status:	NOTED.
NP-020152	Response to email "NP-010710: AMR-WB TSs from SA4" [S3-020129]. Source: SA3.
Status:	WITHDRAWN.
NP-020154	GERAN Review of CRs to 24.007 [GP-021150]. Source: GERAN
Content:	In this LS, TSG-GERAN WG2 proposes enhancements to CN1 CRs to 24.007
Comments:	The required CRs from CN1 are presented to this meeting.
Status:	NOTED.

5.3 From other groups

No input.

6 Reports from TSG-CN working groups (& CN Ad Hocs)

6.1 Reporting from TSG-CN WG1

6.1.1 Status report from CN1

NP-020210	Status Report for TSG CN WG1. Source: CN1 chair.
Status:	REVISED TO 0294.
? REVISED ?	
NP-020294	Status Report for TSG CN WG1. Source: CN1 chair.
Content:	Contains the executive summary of CN1 activities since the last CN plenary.
Comments:	Minor comment that it is the update draft that is 100% complete and not the privacy draft as stated in the report. Network sharing - it is preferred to do the work under a specific WI and not TEI. for Rel-5. Also the four options are in RAN3 and not CN1 as mentioned. CN4 are also dependent on which of the 4 options RAN3 will adopt. A CR against 29.002 can be raised once RAN3 have provided guidance. Stephen will inform TSG SA that for the Rel-5 version of network sharing, CN is heavily dependant on RAN3 making a choice of one of the four proposed solutions. The completion in CN depends on when the information is provided by RAN3. TSG SA will decide if Network sharing is still to be kept in Rel-5 or pushed out to Rel-6. Stephen will report this to TSG SA. AMR- WB - CN consider that they have completed the Rel-5 CRs for AMR-WB support. Stephen will report this to TSG SA. NOTE: one CR to 23.009 [N1-020879] has been agreed by CN1 but not seen / endorsed by CN4. It will be sent out on email to the CN4 in order to get endorsement. It is suggested that this CR be conditionally approved in CN#16. Relating to IETF drafts , it is proposed that for RFC numbers expected by 14 th June, the references to IETF drafts be left in the TSs to be corrected by MCC when the RFC numbers are available. For RFC numbers available after 14 th June they will be corrected by CRs in the usual way. NOTE: Andrew Howell [Motorola] mentioned that CN1 have discussed and agreed that a home PLMN should not use 'cause value #14' to its own subscribers as it may lead to the mobile being unable to provide any service to the user. This is because the mobile cannot write the home PLMN into the 'forbidden' list in the case of cause value #14. Ian Park [Vodafone] suggested that text needs to be added to TS 23.012 and companies are free to bring contributions to future CN4 meetings.
Status:	NOTED.
NP-020211	CN1#23 Meeting Report. Source: MCC.
Status:	NOTED.

NP-020212	CN1#SIP adhoc 0204 Meeting Report. Source: MCC. Status: NOTED.
NP-020213	CN1#24 Meeting Report. Source: MCC. Status: NOTED.
NP-020214	All LSs sent from CN1 since TSG CN#15 Meeting. Source: MCC. Status: NOTED.
NP-020215	All LSs sent from CN1 since TSG CN#15 Meeting. Source: MCC. Status: NOTED.
NP-020209	CN1 IMS open items list. Source: CN1 chair. Status: REVISED to NP-020278.
NP-020278	CN1 IMS open items list Source: CN1 chair. Content: This study has been done to identify the still missing principal decisions and other major open issues in the IMS specifications under CN1 control. It is intended that this document will no longer be maintained after the completion of Rel-5. Stephen Hayes [CN Chair] requested that the open item list be maintained until all IMS open items in the list are closed. Status: NOTED.

6.1.2 Questions for advice and decisions from CN1

No input.

6.2 Reporting from TSG-CN WG2

6.2.1 Status report from CN2

NP-020198	Status Report for TSG CN WG2. Source: CN2 chair. Content: Contains the executive summary of CN2 activities since the last CN plenary. Comments: Related to IMS control of CAMEL. John Meredith [MCC] mentioned that TS 29.278 is not yet recorded in the specifications database. This number still needs to be requested from JMM. There was a discussion on whether CAMEL for IMS should be kept in Rel-5. Nigel Berry [Lucent] supported leaving IMS CAMEL in Rel-5. Iain Sharp [Nortel] countered that the agreement should be that this be included in Rel-5 only if CN2 can complete the work in the Rel-5 timeframe. Ian Park mentioned that the stage 3 is heavily dependent on the stage 2 being stable. An agreement was reached in principle to CAMEL IMS in Release 5 however 23.278 must stand on its own merits. The aim is to approve the stage 2 (TS 23.278) and then approve the stage 3 (TS 29.278) when it is available. It is hoped that this outstanding issue may be resolved by TSG#17. However with only one CN2 meeting before the next plenary this is not certain. TSG SA will take the final decision on where CAMEL IMS will be kept (Rel-5/Rel-6). Charging Notification to the CSE is not complete and will be removed (by a CR in CN#17) if the associated SA1 CR is approved. Status: NOTED.
NP-020199	CN2#23 Meeting Report. Source: MCC. Status: NOTED.
NP-020200	CN2#24 Draft Meeting Report. Source: MCC. Status: NOTED.
NP-020201	LSs sent from CN2 since TSG CN#15 Meeting. Source: MCC.

Status: **NOTED.**

6.2.2 Questions for advice and decisions from CN2

No Input.

6.3 Reporting from TSG-CN WG3

6.3.1 Status report from CN3

NP-020160 Status Report for TSG CN WG3 Source: CN3 chair.

Content: Contains the executive summary of CN3 activities since the last CN plenary.

Comments: **Related to section 3.1:** Ian Park [Vodafone] commented to the CR to TS 29.007 in NP-020172, he has concerns that this introduces a difference between Rel-4 and Rel-5. The difference between Rel-4 and Rel-5 is a conscious decision; it will require a change to 23.018 to maintain alignment with 29.007.

Related to section 5.1: Steve Mecrow [mmO2] stated that adding the Mc interface the WID Interworking between the IM Subsystem and CS networks may result in delays in the completion of the overall work item.

CN3 have reported that Interworking between the IM Subsystem and CS networks cannot be split between Rel-5 and Rel-6. It is planned to deliver this interworking in December 2002. TSG SA will decide into which release this work will be placed. **Stephen will report this to SA plenary along with the fact that some companies objected to the monolithic delivery.**

Status: **NOTED.**

NP-020161 CN3#22 Meeting Report. Source: MCC.

Status: **NOTED.**

NP-020162 CN3#23 Meeting Report MCC. Source: MCC.

Status: **NOTED.**

NP-020163 All LSs sent from CN3 since TSG CN#15 Meeting. Source: MCC.

Status: **NOTED.**

6.3.2 Questions for advice and decisions from CN3

No Input.

6.4 Reporting from TSG-CN WG4

6.4.1 Status report from CN4

NP-020272 Status report from CN4 Source: CN4 chair.

Content: Contains the executive summary of CN4 activities since the last CN plenary.

Status: **NOTED.**

NP-020245 CN4 meeting reports after CN#15. Source: MCC.

Status: **NOTED.**

NP-020246 CN4 Output LSs after CN#15. Source: MCC.

Status: **NOTED.**

6.4.2 Questions for advice and decisions from CN4

No Input.

6.5 Reporting from TSG-CN WG5

6.5.1 Status report from CN5

NP-020175 Chairman's report from CN5 (slide presentation) Source: CN5 chair.

Content: Contains the executive summary of CN5 activities since the last CN plenary.

Comments: Questions were raised as to what part of PRESENCE could be retained in Rel-5. It was clarified that the OSA presence was an API to a generic presence capability and could be enhanced following the completion of the 3GPP presence feature.

Regarding the harmonization between CN5 and 3GPP2, the view is that no joint meetings will be held between CN5 and 3GPP2. However as CN5 are already partaking in the joint API group with Parlay, JAIN, 3GPPand ETSI, then representative companies of 3GPP2 are welcomed to this joint API meeting.

Status: **NOTED.**

NP-020176 LSs outgoing from CN5 between CN#15 and CN#16. Source: MCC.

Status: **NOTED.**

NP-020177 Report of CN5#16, Sophia Antipolis, France, 8 - 12 April 2002 (N5-020180). Source: MCC.

Status: **NOTED.**

NP-020178 Draft Report of CN5#17, Budapest, Hungary,13 - 17 May 2002 (N5-020327). Source: MCC.

Status: **NOTED.**

6.5.2 Questions for advice and decisions from CN5

No Input.

6.6 Status ITU-T ad hoc group

NP-020291 Status report from ITU-T ad hoc.

Comment: No written status report was presented. However Yun-Chao Hu [ITU-T convenor - Ericsson] gave an oral report.

The reference document related to 3GPP R99 had been approved in the ITU-T.

The long term vision documents (ITU-T and ITU-R) have been approved in the ITU.

Status: **NUMBER NOT USED.**

NP-020287 Q.1741.2 VERSION 3.0 OUTPUT FROM THE SSG MEETING AT OTTAWA. Source: ITU-T.

Content: This contribution contains the draft Recommendation Q.1741.2 referencing of Release 4 for the Family System "GSM evolved UMTS Core Network With UTRAN Access Network". The document contains the main part and the agreed contributions and comments at the SSG WP2 Q.3 meeting in Ottawa.

Comments: A similar exercise was carried out by the 3GPP ITU-T ad hoc group for R99 specifications. It is proposed that a similar process be used for Rel-4.

In addition TSG CN and TSG RAN have agreed to attempt to coordinate the outputs to ITU. TSG RAN have prepared a similar document to the ITU-R based on the output from TSG#15. It is proposed that the 3GPP ITU-T ad hoc group use TSG#15 as a base for their discussions.

JMM of MCC stated that in the text 21.202 should read 21.102. Also table 1 showing mapping is not accurate and should be deleted from the ITU-T document.

The ITU-T coordination ad-hoc was tasked with producing a template to be transmitted to the SDOs which provides the recommended response to Q.1741.2.

Status: **NOTED.**

NP-020308 LS OUT to SDO on " coordination of SDO input to ITU-T Q1741.2".

Content: The LS contains the recommendation of the 3GPP CN ITU-T Co-ordination Ad-Hoc that is the input to ITU-T Q.1741.2 should be based in principle upon the Release 4 following TSG SA#15. The set of specifications should be those listed in TS 21.102 v440, with the following changes:

- ?? Technical Reports (TRs) TR ab.8de specifications should not be included
- ?? SOLSA is a GSM capability and should be not included
- ?? The 25 series (Radio Access Network) documents should not be included
- ?? The UE/USIM Test and Conformance Specifications should not be included

Comment: Editorial comments - alignment with the actual title of Q.1741.2.

Also add second action to SDOs asking them to forward the recommendation contained in section 4 to the ITU-T.

Also SOLSA to be removed from the list of specifications.

Status: **REVISED to 0322.**

? **REVISED ?**

NP-020322 Rev. LS OUT to SDO on " coordination of SDO input to ITU-T Q1741.2".

Status: **APPROVED.**

7 Release 4 & earlier: Approval of contributions (by Work Item)

NOTE - Rel 4 and previous releases are FROZEN. ONLY CAT F and CAT A CRS ALLOWED

GENERAL: Ian Doig [Motorola] raised the issue of excess CRs to frozen releases. TSG RAN have examined this classification of correction to frozen releases and produced a discussion document. Ian Park [Vodafone] stated that frequent and serious mis-operation is the only reason for a critical change to a frozen release. Other reasons for a change to frozen release are correction of a CR mis-implementation, and agreement by consensus.

WGs should be looking carefully at each pre-Rel-5 CR to see that it really is essential.

Ian Doig asked that TSG CN gives clear guidance to CN WGs on what rules are to be applied in this case. Hannu Hietalahti [CN1 chair] agreed that rules are required, but they already exist in 21.900. They simply need to be rigorously applied by the working groups.

Ian Doig proposes removing the option for WGs to agree non-essential changes to frozen releases by consensus. Ian Park objected to removing this option, stating that any member company has the right to object to the non-essential CR in WG meetings. In this case the CR cannot be agreed unanimously and will not be presented to Plenary for approval.

Keith Drage [Lucent] stated that the use of 'unanimous vs essential correction' is not applied consistently across CN WGs and this needs to be aligned between CN WGs.

Stephen Hayes [CN chair] summarised that CN does not wish to change the existing working procedures but CN recommends the following.

- ?? Rules relating to CRs as described in 21.900 be consistently applied by all CN WGs
- ?? When a Pre-Rel-5 CR is presented to plenary for approval - it must be clearly mentioned that the reason is either essential correction or unanimous agreement.
- ?? Editorial changes are not permitted to frozen releases
- ?? Filtering of CRs be done at working group level and not in plenary
- ?? Quotas and statistics do not seem necessary at this time.
- ?? Use of 'unanimous agreement vs essential correction' be harmonized across the CN WGs
- ?? The 'consequences if not approved section' of the CR cover page must be completed correctly for every CR.
- ?? CN should aim at reducing the number of Pre-Rel-5 CRs (not increasing as is the tendency at NP#16)

Ian Park [CN4 chair] pointed out that all CRs from CN4 were agreed by consensus in the WG unless there is a specific indication to the contrary in the CN4 status report.

7.1 CAMEL Phase 2 and Phase 3

NP-020202 CRs to R97 WI CAMEL2, Pack 1. Source: CN2.

Status: **APPROVED.**

NP-020203 CRs to R99 WI CAMEL3, Pack 2. Source: CN2.

Status: **APPROVED.**

NP-020204 CRs to R99 WI CAMEL3, Pack 3. Source: CN2.

Comments: Ian Doig asks why the essential correction is not made to R97/R98 but it is proposed to change R99. Is the change that essential? Keijo replied that this was the decision made in CN2 WG meeting.

Status: **APPROVED.**

7.2 Security

NP-020216 CR to R99 (with mirror CRs) on Work Item Security towards 24.008. Source: CN1.

Status: **APPROVED.**

7.3 GPRS

NP-020170 CR Pack on TEI [GPRS] Pack 1. Source: CN3.

Comments: Wrong version on cover sheet for R99 CR. Corrected before presentation.

Status:	REVISED to 0295.
? REVISED ?	
NP-020295	CR Pack on TEI [GPRS] Pack 1. Source: CN3.
Status:	APPROVED.
NP-020171	CR Pack on TEI [GPRS] Pack 2 CN3. Source: CN3.
Status:	APPROVED.
NP-020217	CR to R99, Rel-4 and Rel-5 on Work Item GPRS towards 24.008. Source: CN1.
Status:	APPROVED.
NP-020250	CR pack: GPRS. Source: CN4.
Status:	APPROVED.

7.4 Location service enhancement

NP-020254	CR pack: Location services. Source: CN4.
Status:	APPROVED.
NP-020270	CR 24.008 on Indication of support of LCS via the PS domain in Iu-mode. Source: Siemens.
Status:	REVISED TO 0289.
? REVISED ?	
NP-020289	CR 24.008 on Indication of support of LCS via the PS domain in Iu-mode. Source: Siemens.
Status:	REVISED TO 0301.
? REVISED ?	
NP-020301	CR 24.008 on Indication of support of LCS via the PS domain in Iu-mode. Source: Siemens.
Content:	Consequences if not approved: This CR is needed to enable a solution in Rel-5 that interworks with Rel-4. The MS expects the support of LCS via the PS domain although this is not supported by the network. The supervision timer for the LCS-MOLR as defined in 24.080 is set to 10s to 30s (which may be too short anyway considering MS based positioning methods) so that a user has to wait for this time to get the information that the network does not support LCS. The MS is not informed about changes concerning the support of LCS-MOLR. This contribution proposes revisions to a CR from CN1. It has not yet been seen and agreed by CN1. It is the opinion of the authors of the CR that it is not a critical correction and they are seeking agreement by consensus. Note: NP-020301 is the Rel-4 version and NP-020300 is the Rel-5 version of this CR.
Comments:	Hanuu Hietalahti [CN1 chair] stated that the solution has been available to CN1 delegates for some time, and this revision takes into account comments received on the original CRs. Keith Drage [Lucent] asked why this is presented to Plenary and suggested that it be sent back to CN1 for further study. However, there was no formal objection to approving the CR. Stephen Hayes [CN chair] mentioned that the "direct to plenary" approach is not the preferred way of handling CRs within CN.
Status:	APPROVED.
NP-020271	CR 24.008 on Indication of support of LCS via the PS domain in Iu-mode. Source: Siemens.
Status:	REVISED TO 0300.
? REVISED ?	
NP-020300	CR 24.008 on Indication of support of LCS via the PS domain in Iu-mode. Source: Siemens.
Status:	APPROVED.

7.5 Handover

NP-020251 CR pack: Handover. Source: CN4.

Status: **APPROVED.**

7.6 GSM-UMTS interworking

NP-020218 CRs to R99 (with mirrors) on Work Item GSM/UMTS interworking towards 24.007 and 23.009. Source: CN1.

Status: **APPROVED.**

NP-020219 CRs to R99 (with mirrors) on Work Item GSM/UMTS interworking towards 24.008. Source: CN1.

Status: **APPROVED.**

7.7 Transcoder free operation [TrFO]

NP-020220 CRs to Rel-4 (with mirrors) on Work Item TrFO towards 24.008. Source: CN1.

Comments: TSG CN will report to TSG SA that we have approved these CRs to 24.008. These CRs remove the problem of the network having to implicitly support multiple codecs. Since this caused considerable discussion in the last 2 SA plenaries, the current solution should be highlighted to SA#16. **Stephen will report this to TSG SA.**

Status: **APPROVED.**

7.8 Enable bearer independent CS architecture [CSSPLIT]

NP-020221 CR to Rel-4 (with mirror CR) on Work Item CSSPLIT towards 24.008. Source: CN1.

Status: **APPROVED.**

NP-020249 CR pack: Enable Bearer independent CS architecture. Source: CN4.

Status: **APPROVED.**

7.9 Multicall

NP-020256 CR pack: Multicall. Source: CN4.

Status: **APPROVED.**

7.10 OSA Enhancements [OSA1]

NP-020179 Rel-4 CRs 29.198-03. Source: CN5.

Status: **APPROVED.**

NP-020180 Rel-4 CRs 29.198-04. Source: CN5.

Status: **APPROVED.**

7.11 Technical enhancements and improvements

NP-020172 CR Pack on TEI [CS Data]. Source: CN3.

Comments: NOTE: The pack also contains two CRs to Rel-5 specs (should be under agenda Item 8.8)
Also, use of a single CR template will be ensured by MCC_CN in the future.

Status: **APPROVED.**

NP-020173	Change DHCPv6 internet-draft reference to RFC. Source: <i>Ericsson.</i>
Status:	WITHDRAWN.
NP-020222	CRs to R99 (with mirror CRs) on Work Item TEI towards 24.007, 09.94, 29.994. Source: <i>CN1.</i>
Comments:	Ian Doig [Motorola] said that the CRs to 09.94 (CRs 11 and 12) will produce versions 5.1.0 and 6.1.0, and not 5.0.0 and 6.0.0 as shown in the cover sheet, as these versions have existed in the past but had been withdrawn. It was also noted that there will be a companion TR from RAN in 29.993
Status:	APPROVED.
NP-020223	CRs to R99 (with mirror CRs) on Work Item TEI towards 24.008 and 29.018. Source: <i>CN1.</i>
Status:	APPROVED.
NP-020224	CRs to Rel-4 (with one mirror CR) on Work Item TEI4 towards various TSs. Source: <i>CN1.</i>
Status:	APPROVED.
NP-020258	CR pack: Technical Enhancements and Improvements. Source: <i>CN4.</i>
Comments:	23.007 CR007 is missing the CR number from the cover sheet. Regarding the IMEI CRs to 03.03/23.003, there is no formal agreement between 3GPP and 3GPP2; only discussions have been held and agreement reached between a number of member companies.
Status:	APPROVED.
NP-020259	CR pack: Technical Enhancements and Improvements for Release 4. Source: <i>CN4.</i>
Status:	APPROVED.
NP-020268	CR 29.002-397r3 on Check of NAM and Requesting Node Type on receipt of SendAuthenticationInfo. Source: <i>CN4.</i>
Status:	APPROVED.

7.12 Any Other pre- Rel-5 WI

No input.

8 Release 5:

8.1 Provisioning of IP-based multimedia services [IMS]

NOTE:- ALL of the Rel-5 TSs placed under change control at NP#15 and NP#16 are considered "FUNCTIONALLY FROZEN" at NP#16. - This does not prevent the correction of the open issues reported to this meeting or alignment with stage 1/2 and IETF documents.

NP-020174	Actions within the GGSN for IMS parameters sent in PDP context activation. Source: Ericsson.
Status:	WITHDRAWN.
NP-020208	Work Item Description for the Support of CAMEL by the IMS Source: CN2.
Content:	Presented to NP#15, referred back to CN2 for further study, and now presented to NP#16 for approval. It has also been reviewed by CN4.
Comments:	TSG dates need changing (to reflect decisions taken in this meeting relating to the completion of 23.278 and 29.278). It is proposed that 23.278 be delivered at NP#16 and 29.278 be delivered at NP#17. Also the title states Support of CAMEL by IMS and it should be CAMEL control of IMS Services.
Status:	REVISED to 0305.
NP-020305	Work Item Description for the Support of CAMEL by the IMS Source: CN2.
Status:	APPROVED.
NP-020207	Draft TS 23.278 v 2.0.0 (CAMEL) Phase 4 - Stage 2 IM CN Interworking Source: CN2.
Content:	Contains draft version of TS 23.278 v2.0.0 for submission to CN#16 for approval. This document defines the stage 2 specification for CAMEL/IMS interworking.
Comments:	Jan Ellsberger [Ericsson] commented that the specification is not 80% complete and its approval should be pushed back to a later TSG. Keijo Palviainen [CN2 chair] agreed that it is less than 80% stable, even though a great amount of meeting time has been spent on it. Jan Ellsberger added that product development will start only once the technical aspects are stable. Keijo countered that it is probable that IMS and / or CAMEL Ph.4 is not 80% stable. Ian Park [Vodafone] warned that NOT approving this to be made V5.0.0 in NP#16 may result in TSG SA pushing this out to Rel-6. Andrew Allen (Dynamicsoft) pointed out that there are references from 23.218 to 23.278 that will be invalidated if 23.278 is moved out of Rel-5. CN2 has agreed that TS 23.278 is 80% stable and the intention of CN2 is to ask CN plenary if this specification should be placed under change control or not. Siemens supported placing TS 23.278 under change control. Ericsson strongly objected to placing TS 23.278 under change control. In conclusion Stephen will report to SA that CN did not approve 23.278. The intention is to complete stage 2 and stage 3 at CN#17. CN will request that this is still kept in Release-5
Status:	REFERRED BACK TO CN2.
NP-020253	CR pack: Provisioning of IP-based multimedia services in Camel4. Source: CN4.
Comments:	Due to above decision on delivery of 23.278 and 29.278 these are postponed.
Status:	POSTPONED to NP#17.
NP-020225	CRs to Rel-5 on Work Item IMS-CCR towards 24.008 Source: CN1.
Status:	APPROVED.
NP-020226	CRs to Rel-5 on Work Item IMS-CCR towards 23.218 Source: CN1.
Status:	APPROVED.
NP-020227	CRs to Rel-5 on Work Item IMS-CCR towards 24.228 Source: CN1.
Comments:	ALL CRs APART FROM 24.228 CR004 [see NP-020316] are APPROVED.
Status:	PART-APPROVED (APART FROM 24.228 CR004).

NP-020228	CRs to Rel-5 on Work Item IMS-CCR towards 24.228 Source: CN1.
Status:	APPROVED.
NP-020229	CRs to Rel-5 on Work Item IMS-CCR towards 24.228 Source: CN1.
Status:	APPROVED.
NP-020237	CRs to Rel-5 on Work Item IMS-CCR towards 24.229. Source: CN1.
Content:	This proposes 'Solution A' to the same problem covered in NP-020230.
Comments:	Andrew Allen [Dynamicsoft] mentioned that there is some controversy within the IETF on the Dialogue ID header, and it may result in an alternate solution being required.
Status:	APPROVED.
NP-020230	CRs to Rel-5 on Work Item IMS-CCR towards 24.229 Source: CN1.
Content:	This proposes 'Solution B' to the same problem covered in NP-020237 so most of the CRs in the package are no longer required, based upon the status of the previous CRs.
Comments:	CRs 004r1, 005r2, 007r1 and 009r1 to 24.229 in the tdoc are APPROVED . CR 008 is rejected based on the acceptance of NP-020318020312
NOTE:-	CR contained in N1-021506 is split out and revised into NP-020312. Following e-mail clarification with Keith Drage [Lucent] - CR009r1 was 'wrongly' approved. It was agreed NOT to implement CR009r1 in 24.229. A note was added to the TS, and to the CR / Spec databases. It is expected that another CR removing CR009r1 will be created (by the MCC) to be approved at NP#17
Status:	PART APPROVED.
NP-020231	CRs to Rel-5 on Work Item IMS-CCR towards 24.229 Source: CN1.
Comments:	CR contained in N1-021169 is split out and revised into NP-020314. ALL CRs APART FROM 24.229 CR024r2 [see NP-020314] are APPROVED.
Status:	PART APPROVED.
NP-020232	CRs to Rel-5 on Work Item IMS-CCR towards 24.229 Source: CN1.
Status:	APPROVED.
NP-020233	CRs to Rel-5 on Work Item IMS-CCR towards 24.229 Source: CN1.
Comments:	CR contained in N1-020840 is split out and revised into NP-020315. ALL CRs APART FROM 24.229 CR050 [see NP-020315] are APPROVED.
Status:	PART APPROVED.
NP-020234	CRs to Rel-5 on Work Item IMS-CCR towards 24.229. Source: CN1.
Comments:	CR contained in N1-021511 is split out and revised into NP-020312. ALL CRs APART FROM 24.229 CR060r10 [see NP-020312] are APPROVED.
Status:	PART APPROVED.
NP-020235	CRs to Rel-5 on Work Item IMS-CCR towards 24.229. Source: CN1.
Status:	APPROVED.
NP-020236	CRs to Rel-5 on Work Item IMS-CCR towards 24.229. Source: CN1.
Status:	APPROVED.
NP-020238	CRs to Rel-5 on Work Item IMS-CCR towards 24.229. Source: CN1.
Status:	APPROVED.
NP-020239	CRs to Rel-5 on Work Item IMS-CCR towards 24.229. Source: CN1.
Status:	APPROVED.
NP-020240	CRs to Rel-5 on Work Item IMS-CCR towards 24.229. Source: CN1.

Status:	APPROVED.
NP-020252	CR pack: Provisioning of IP-based multimedia services. Source: CN4.
Status:	APPROVED.
NP-020263	Open Issues for CAMEL / IMS. <i>Lucent.</i>
Status:	WITHDRAWN.
NP-020264	3GPP TS 29.228v200 on IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contents. Source: CN4.
Comments:	CN4 believes that 29.228 has no outstanding issues and no contentious issues:
Status:	APPROVED.
NP-020265	3GPP TS 29.229 v200 on Cx and Dx Interfaces based on the Diameter protocol; Protocol details. Source: CN4.
Comments:	CN4 believes that 29.229 has no contentious issues and the only outstanding issue is the definition of a mechanism for the negotiation of protocol versions
Status:	APPROVED.
NP-020277	3GPP TS 29.328v200 on IP Multimedia (IM) Subsystem Sh Interface; signalling flows and message contents. Source: CN4.
Comments:	CN4 believes that 29.328 has no contentious issues and the only outstanding issues are: The exact nature of the subscriber state information element is FFS, section 7.6.7. The multiplicity of service indication needs examination. In annex C.1, the definition of the format of location information is required. It is expected that these outstanding issues can be resolved by CRs by NP#17
Status:	APPROVED.
NP-020266	3GPP TS 29.329v201 on Sh Interface based on the Diameter protocol; Protocol details. Source: CN4.
Comments:	CN4 believes that 29.329 has no contentious issues and the only outstanding issue is that commands for the Sh may be allocated to start at 100 (to differ from Cx)
Status:	APPROVED.
NP-020276	CR 24.229 on Clarification of GPRS aspects. Source: Ericsson.
Status:	WITHDRAWN.
NP-020288	CR 24.228 on Adding security parameters to the call flows. Source: Nokia et al.
Comments:	This CR has not been seen and agreed by CN1 due to lateness of IETF decisions.
Status:	APPROVED.
NP-020296	CR 24.228 on SS #1c update. Source: Nokia and Siemens.
Comments:	This CR has not been seen and agreed by CN1 due to lateness of IETF decisions. Ericsson is currently looking at this group of Late CRs and asks for more time. After comments received off-line, the contribution was revised.
Status:	REVISED to 0309.
? REVISED ?	
NP-020309	CR 24.228 on SS #1c update. Source: Nokia and Siemens.
Status:	APPROVED.
NP-020297	CR 24.228 on MO #1b and MT #1b update. Source: Nokia and Siemens.
Comments:	This CR has not been seen and agreed by CN1 due to lateness of IETF decisions.
Status:	APPROVED.
NP-020312	CR 24.228 on Asserted Identity. Source: Lucent.

Comments: This CR has not been seen and agreed by CN1 due to lateness of IETF decisions.
Status: **APPROVED.**

NP-020314 CR 24.228 on "update and manyfoks RFC number". Source: Lucent.

Comments: This CR has not been seen and agreed by CN1 due to lateness of IETF decisions.
Editors note under RFC needs to be deleted <<NOTE TO PER, MCC>>

Status: **APPROVED.**

NP-020315 CR 24.228 on Media-Authorization header corrections. Source: Lucent.

Comments: This CR has not been seen and agreed by CN1 due to lateness of IETF decisions.
Editors note under RFC needs to be deleted <<NOTE TO PER, MCC>>

Status: **APPROVED.**

NP-020316 CR 24.228 on MO, S-S, MT#1a reference flow update. Source: Nokia and Lucent.

Comments: This CR has not been seen and agreed by CN1 due to lateness of IETF decisions.
Status: **APPROVED.**

NP-020317 CR 24.228 on Content of FROM/TO headers 24.228 CR 043R1. Source: Nokia and Lucent.

Comments: This CR has not been seen and agreed by CN1 due to lateness of IETF decisions.
Status: **APPROVED.**

8.2 OSA enhancements [OSA2]

NP-020181 Rel-5 CRs 29.198-xy Addition of Support for Java API Technology Realisation. Source: CN5.
Status: **APPROVED.**

NP-020182 Rel-5 CR 29.198-xy Addition of Support for WSDL Realisation. Source: CN5.
Status: **APPROVED.**

NP-020183 Rel-5 CR 29.198-xy Addition of Support for Network Controlled Notifications MPCC. Source: CN5.
Status: **APPROVED.**

NP-020184 Rel-5 CRs 29.198-01. Source: CN5.
Status: **APPROVED.**

NP-020185 Rel-5 CRs 29.198-02. Source: CN5.
Status: **APPROVED.**

NP-020186 Rel-5 CRs 29.198-03. Source: CN5.
Comments: CR34 is a duplicate of CR CR039.
ALL CRs APART FROM CR034 are APPROVED.
Status: **PART APPROVED.**

NP-020187 Rel-5 CRs 29.198-04. Source: CN5.
Status: **APPROVED.**

NP-020188 Rel-5 CR 29.198-04 for splitting into 4 sub-parts. Source: CN5.
Comments: Ian Doig [Motorola] has a problem with CN5 using this multi-part specification numbering system. Ian has concerns with splitting the existing parts once again into sub-parts.
Stephen Hayes countered that this numbering is allowed and has been used to indicate a family of specifications. Ard Jan Moerdijk [CN5 chair] stated that CN5 have studied the possibility of re-numbering and decided this was the best solution for clarity.

Keith Drage [Lucent] stated that this multiple sub-part numbering is allowed in ETSI, and a previous decision in CN plenary was to attempt to align our specifications with the ETSI numbering scheme.
NOTE: All the sub-parts of 29.198-04 will be version 5.0.0

Status:	APPROVED.
NP-020189	Rel-5 CRs 29.198-05. Source: CN5.
Status:	APPROVED.
NP-020190	Rel-5 CRs 29.198-06. Source: CN5.
Status:	APPROVED.
NP-020191	Rel-5 CRs 29.198-07. Source: CN5.
Status:	WITHDRAWN.
NP-020192	Rel-5 CRs 29.198-08. Source: CN5.
Status:	APPROVED.
NP-020193	Rel-5 CRs 29.198-11. Source: CN5.
Status:	APPROVED.
NP-020194	Rel-5 CRs 29.198-12. Source: CN5.
Status:	APPROVED.
NP-020195	Rel-5 Draft v2.0.0 TS 29.198-13 OSA API Part 13: Policy Management SCF. Source: CN5.
Status:	APPROVED.
NP-020196	Rel-5 Draft v2.0.0 TS 29.198-14 OSA API Part 14: Presence and availability Management (PAM). Source: CN5.
Status:	APPROVED.
NP-020197	Rel-5 Draft v2.0.0 TR 29.998-04-04 Mapping for OSA; Part 4: Call Control Service Mapping; Subpart 4: Multiparty Call Control - ISC. Source: CN5.
Comments:	NOTE RFC number for SIP is incorrect - should be corrected by the editor / MCC.
Status:	APPROVED.

8.3 CAMEL Phase 4 [CAMEL4]

NP-020205	Composite changes for CAMEL phase 4, Stage 2 (TS 23.078 for Rel-5). Source: CN2.
Content:	Presents a clean version of the 23.078v200 that is a result of the composite changes made to this specification between Rel-4 and Rel-5. Revision marks have not been used in order to allow easier reading.
Comments:	JMM warned against this type of practice, and also asked that the change history be included in the new v5.0.0 TS for clarity. The overall document structure of 23.078 Rel-5 is substantially the same as Rel-4. There is however a lot of new information that has been introduced. The top level clause numbers and titles have not been altered, however a lot of changes have been made to the lower level sub-clauses. There was some resistance against allocating a new TS number instead of using 23.078 for Rel-5 as it does not allow for transparent traceability. This process of issuing a CR which completely replaces an existing TS is discouraged since it compromises traceability. MCC will add the complete CR history to the ANNEX of this TS.
Status:	APPROVED.
NP-020206	Composite changes for CAMEL phase 4, Stage 3(TS 29.078 for Rel-5). Source: CN2.
	MCC will add the complete CR history to the ANNEX of this TS.
Status:	APPROVED.

NP-020248 CR pack: CAMEL phase 4. Source: CN4.
Status: **APPROVED.**

8.4 Location Service Enhancements [LCS1]

NP-020255 CR pack: Location services enhancement. Source: CN4.
Status: **APPROVED.**

8.5 End to End QoS [QoSPS]

NP-020166 TS 29.208 - End-to-end QoS signalling flows [N3-020523] . Source: CN3.
Comments: OPEN ISSUES:- alignment for RSVP with the stage 2 specification. It was requested that the open issues be listed in a separate document [NP-020306]
Status: **APPROVED.**

NP-020306 Open issues for TS 29.208. Source: Lucent.
Status: **NOTED.**

NP-020167 TS 29.207 - Policy control over Go interface [N3-020524] . Source: CN3.
Comments: OPEN ISSUES:- alignment for DIFFSERV interworking function. Guidance required from SA2.
NOTE: the document includes several EDITOR'S NOTES that reflect the work that remains to be done. It was requested that the open issues be listed in a separate document [NP-020307].
Status: **APPROVED.**

NP-020307 Open issues for TS 29.207. Source: Lucent.
Status: **NOTED.**

8.6 Security enhancements [SEC1]

NP-020257 CR pack: Security enhancements. Source: CN4.
Status: **APPROVED.**

8.7 Service Change and UDI Fallback [SCUDIF]

NP-020164 Revised WID for Circuit Switched (CS) Multimedia Service; UDI/RDI Fallback and Service Modification. Source: CN3.
DAB note << remove the provisional number note from MCC >>
Status: **APPROVED.**

NP-020168 TS 23.172 Technical Realization of Circuit Switched (CS) Multimedia Service; UDI/RDI Fallback and Service Modification [N3-020310]. Source: CN3.
Comments: No open items on SCUDIF.
Status: **APPROVED.**

NP-020169 CR Pack on SCUDIF. Source: CN3.
Status: **APPROVED.**

NP-020241 CR to Rel-5 on Work Item SCUDIF towards 24.008. Source: CN1.
Status: **APPROVED.**

8.8 Technical enhancements and improvements [TEI]

NP-020242 CRs to Rel-5 on Work Item TEI5 towards 24.008. Source: CN1.
Status: **APPROVED.**

NP-020243	CRs to Rel-5 on Work Item TEI5 towards 23.009 and 23.122. Source: CN1.
Comments:	CR066r2 requires conditional approval as it still needs to be circulated and agreed by CN4. It will be sent out for comments / agreement to the CN4 list with a cut-off date of 12:00 CET Thursday 13 June. This CR has conditional approval in CN (condition being no objections from CN4). The remaining 2 CRs in the PACK are approved.
Status:	PART APPROVED.
NP-020260	CR pack: Technical Enhancement and Improvements for Release 4. Source: CN4.
Status:	APPROVED.
NP-020261	CR pack: Support of IPv4 and IPv6 node addresses in Core Network. Source: CN4.
Content:	Contains a CR that was agreed in CN4, although Lucent formally objected to the agreement and they propose an alternative solution [NP-020262]. Includes a cautionary statement " <i>Interoperability problems can arise if a pre-Release-5 GSN uses IPv6 transport</i> " with additional explanation of what the problems are
Status:	REVISED to 0310.
	? REVISED ?
NP-020310	CR pack: Support of IPv4 and IPv6 node addresses in Core Network. Source: CN4.
	Stephen will highlight CN's solution to this issue to TSG SA
Status:	APPROVED.
NP-020262	Support of IPv4 and IPv6 node addresses in Core Network. Source: <i>Lucent Technologies</i> .
Content:	In the interest of protecting operators from possible future deployment and operation issues, Lucent proposes that CN Plenary asks CN4 to re-consider their initial non-consensus based position [NP-020161] and to adopt the network operator friendly, all encompassing solution proposed in the CR attached to this contribution.
Comments:	There is a backwards compatibility problem if a pre-Rel-5 GPRS infrastructure allocates IPv6 addresses to the network nodes. SA2 has endorsed the simpler solution [NP-020261] - that includes a warning to operators to avoid using IPv6 addressing in a pre-Rel-5 network. This SA2 solution will be presented to SA#16. Steve Mecrow [mm02] commented that this is more of a cross operator deployment issue and should be handled outside of 3GPP, probably by the GSM association. Peter Schmitt [Siemens] clarified that if [in a pre-Rel-5 network] an operator uses a dual stack [IPv4 / IPv6] but only employs IPv4 addressing - the interoperability problem is avoided. Nokia does not see the added value of the Lucent CR and believes that interoperability problems remain. Nigel Berry [Lucent] does not disagree with the Note in the original CR, but wants the message to be made more normative. If this is done Lucent will accept the modified version of the original CR. Stephen Hayes proposed that the NOTE be reworded to 'Use of ipv6 transport in a pre-Release 5 GSN can lead to interoperability problems. The final rewording was agreed offline between interested parties
Status:	NOTED.
NP-020273	CR 24.008 on Addition of missing code point for 8-PSK Half Rate AMR. Source: <i>Ericsson LM</i>
Status:	REVISED TO 0292 [before presentation].
	? REVISED ?
NP-020292	CR 24.008 on Addition of missing code point for 8-PSK Half Rate AMR. Source: <i>Ericsson LM</i> .
Comments:	Andrew Howell [Motorola] had concerns with the inclusion of NOTE 2 that cross references 26.103. Proposed to remove the duplicate definitions for each code point in relation to each CODEC type. It was noted that the CR is made under a Rel-4 WI although it is for Rel-5. Proposed to change to TEI5.
Status:	REVISED to 0311
	? REVISED ?
NP-020311	CR 24.008 on Addition of missing code point for 8-PSK Half Rate AMR. Source: <i>Ericsson LM</i> .
Status:	APPROVED.

8.9 Any other Rel-5 WI

NP-020247 CR pack: AMR WB. Source: CN4.

Content: This CR completes CN4s work on AMR-WB except for the lawful intercept (out of CN control).

Status: **APPROVED.**

NP-020267 CR pack: Intra Domain Connection of RAN Nodes to multiple CN nodes. Source: CN4.

Status: **APPROVED.**

9 Release 6

9.1 IMS Phase 2 [IMS]

NP-020165 Revised WID on interworking between IMS and CS [N3-020521]. Source: CN3.

Contents: This revised WID includes the work required for the new interface IMS Mc.

Comments: Editorial correction to section 4 to remove the reference to Rel-6.

Keith Drage [Lucent] high-lighted that this WID implies modifications to the architecture to introduce two different reference points. This modification needs to be done in SA2. Norbert Klehn [CN3 chair - Siemens] proposed sending an LS to SA2 seeking clarification on the need for one or two reference points

CN4 will produce a new TS (as opposed to re-using the existing Mc), as they are dealing with two distinct applications.

Steve Mecrow [mm02] proposed that the two deliverables would be better handled in two distinct WIDs. In this way the inclusion of the Mc interface will not further delay the delivery of the late TS 29.163. Originally CN3 had preferred a separate WID, but CN4 had proposed a merged WID in order to avoid the additional management of a new WID to manage this new interface.

Andrew Allen [Dynamicsoft] agreed that it is better to limit the scope of 29.163 in order to ensure it is delivered in a useful timeframe. Steve Mecrow added that separate WIDS would give additional clarity. Nigel Berry and Andrew Allen supported separate WIDs.

It was agreed to separate out the CN4 part of this WID [NP-020320]. The previously approved version of the CN3 WID for interworking between IMS and CS remains as the valid version.

Status: REVISED to 0320

? REVISED ?

NP-020320 Proposed WID for Bearer independent architecture in the PS domain. Source: CN3.

Status: APPROVED.

9.2 Support of PRESENCE [PRESNC]

No input to this agenda item.

9.3 Security enhancements [SEC1]

No input to this agenda item.

9.4 Emergency call enhancements [EMC1]

No input to this agenda item.

9.5 Speech recognition and speech enabled services [SRES]

No input to this agenda item.

9.6 Generic user profile [GUP]

No input to this agenda item.

9.7 OSA enhancements [OSA3]

No input to this agenda item.

9.8 Multimedia broadcast and multicast service [MBMS]

NP-020244 WID: Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols. Source: CN1.

Comments: The stage 2 that is to be presented to SA#16 contains several architectural options. However the intent of this WID is to indicate CNs intention to work in the area of MBMS once the work in SA2 has stabilised.

Niels Andersen [Motorola] had concerns with the wording in section 3 that indicates that the stage 1 is complete and stage 2 is well advanced. He stated that the stage 2 is not yet stable and still requires work to be done in RAN. Protocol work within CN cannot begin until the architecture is stable.

It was proposed to make the timescales mentioned in this WID more realistic. Also the dependency on RAN needs to be reflected in the WID.

Andrew Allen [Dynamicsoft] suggested having a joint ad-hoc with RAN to progress the MBMS work and accelerate the progress of the stage 2.

Niels Andersen high-lighted that this WID seems to assume a point to point solution coming out of RAN. This is not yet agreed in RAN or SA2.

There was general support for having the MBMS WID in CN.

It was proposed to re-word the text in section 3 to indicate that the stage 2 is not as well advanced as originally suggested. Also to remove the proposed timescales for completion of this work.

Status:
? REVISED ?

NP-020323 **Rev. WID: Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols.**

Status: APPROVED.

9.9 Any other Rel-6 WI

NP-020269 **Work item description: Interworking of CS user plane between 3GPP and external PLMN/PSTN/ISDN. Source: CN4.**

Status: APPROVED.

10 TSG CN work organization

10.1 Principles for work organization within CN

NP-020290 **Organisation of work in TSG CN after Release 5. Source: CN V.chair.**

Content: Contains a review of the work organisation within CN.

Comments: Stephen Hayes [CN chair] stated that is a good thing for CN to review its worksplit periodically to make sure the work organisation within CN is optimal.

This proposal is not that CN re-organises now, just be aware that we need to keep a track of what we are doing and how we are doing it.

The contribution suggests the ground rules for any re-organisation should be:

- ?? There should not be a large difference between the workloads of different groups
- ?? We should try to avoid the same skill set being required for delegates to different WG meetings;
- ?? Each group should have a workload which mixes the maintenance of existing specifications and the development of new specifications.
- ?? Even though our aim is to put the Release 5 specifications for which CN is responsible under change control at CN #16, we need to recognise that substantial work will be needed over the next 6 months to stabilise those specifications. Indeed there are some specifications for which we will not meet the target of approval at CN #16: to name only two, the protocol specification for the Ze interface from CN4 and the CAP protocol specification for CAMEL control of IMS from CN2. The timing of any restructuring should take account of the need to complete the work on the Release 5 specifications.

Also there is work being done outside of TSG-CN which could be seen as more appropriate to one of the CN working groups. Two examples of this are the GPRS stage 2 specification, 23.060, and the stage 2 specifications for Location Services, 23.071 & 23.271. CN could consider taking responsibility for all / some of these.

Hannu Hietalahti [CN1 chair] did not think it is realistic for all WGs to have the same / similar number of meeting dates and tdocs per meeting. Hannu does not (yet) wish to touch the work organisation of CN1, but wished to continue the CN1 practice of having specific topic oriented ad hoc meetings.

Iain Sharp added that the work done by individual working groups needs to be fairly self contained and grouped by skill set in order to limit the inter group dependencies.

Ian Doig [Motorola] supported CN taking responsibility for certain stage 2 specifications from SA2. He proposed mentioning this to SA#16. SA2 is greatly overworked and this would relieve the workload.

There was support for moving TS 23.060 to CN's responsibility. Motorola currently have rapporteurship of 23.060 and would maintain that responsibility should this move over to TSG CN. **Stephen will report to TSG SA that we are willing to take responsibility for certain SA2 specifications.**

Stephen Hayes proposed that we do not conclude on the issue of CN organization at NP#16, but encourages open and active dialogue on this on the CN email exploder list.

Status: Noted.

10.2 Terms of Reference

No Input.

10.3 Support Arrangements

No Input.

10.4 Working methods / Work Style

NP-020313 A proposed new CR cover page template *Source: MCC.*

Comments: Note: This has been seen and endorsed by TSG T and TSG RAN.

Wording needs to be made more mandatory if this is approved in TSG SA.

Boxes will be used on ALL CRs not only those that are made to Frozen specs.

Request to keep the CR cover page 'STYLE' be consistent.

RAN will reject CRs that don't have the YES/NO boxes completed. CN will not take this approach for the moment.

The meeting had concerns with separating the USIM / ISIM. This will probably be raised in TSG SA. It was mentioned that it is better to reduce the number of Tick boxes for individual entities.

Also: Linked CRs need to be reflected in the Other core specs and the semantics needs to be "SPEC+CR NUMBER" or "SPEC+CR DESCRIPTION". However for "Impact on Test and O&M" specifications where the CRs come a lot later the semantics need to be only "SPEC"

Stephen will report to SA that CN endorses it, but has serious concerns with the split of the (U)SIM / ISIM.

Stephen will communicate the final completed version of the template to all CN WGs.

Status:

ENDORSED by TSG CN.

10.5 Future Meeting Schedule

CN plenary and CN WG meetings in 2002-2003			
Date	Meeting	Venue	Host
29 July – 2 August 2002	CN WGs	Helsinki, FINLAND	Sonera, Nokia, Elisa
4 – 6 September 2002	CN #17	Biarritz, FRANCE	Alcatel
23 – 27 September 2002	CN WGs	West coast (???), USA	North American Friends
11 – 15 November 2002	CN WGs	Bangkok, THAILAND	Japanese Friends
4 – 6 December 2002	CN #18	New Orleans, USA	North American Friends
10 – 14 February 2003	CN WGs		
12 – 14 March 2003	CN #19	Jersey Island, UK	UK Friends
7 – 11 April 2003	CN WGs		
19 – 23 May 2003	CN WGs		
4 – 6 June 2003	CN #20	FINLAND	Nokia
18 – 22 August 2003	CN WGs		
17 – 19 September 2003	CN #21	GERMANY	To be confirmed
27 – 31 October 2003	CN WGs	China	Japanese Friends
10 – 12 December 2003	CN #22	To be confirmed	NA & Japanese Friends

NP-020293 3GPP2 calendar of meeting for 2002/2003. Source: 3GPP TSG-N chair

Status: **NOTED.**

NP-020298 3GPP calendar of meeting for 2002/2003. Source: CN chair

Comments: Goal is not to overlap with 3GPP2 meetings (where possible).
 Chose 10-14 Feb 2003 to avoid clash with 3GPP2 TSG-N meeting.
 Chose 07-11 April.
 Chose 19-23 May 2003 to avoid clash with 3GPP2 TSG-N meeting.
 Chose 18-22 Aug to avoid Important Japanese holiday [Clashes with 3GPP2 TSG-N]
 Chose 27-31 Oct to allow time for possible additional meeting

It could be one possibility to have only 4 co-located CN WG meetings in 2003. Also the relationship with SA2/3 is important.

Also the date for the freezing of Rel-6 has been initially scheduled as June 2003. It is still possible that this date will change, and this will have impact on all of the CN WG meeting dates.

It was proposed to take these dates as tentative dates which are subject to change. Stephen will present these to SA and ask if they see any important clashes with these dates.

Stephen Hayes will indicate these initial dates to the chair of 3GPP2 TSG-N by email.

Andrew Allen suggested co locating the 3GPP2 and 3GPP meetings in August in the same hotel to allow delegates to attend but there was no agreement on this point.

Note: China and Japan will co-host a meeting in October 2003.

The tentative dates were revised into a new document.

Status: **REVISED to 0318.**

? REVISED ?

NP-020318 3GPP calendar of meeting for 2002/2003. Source: CN chair

Status: **NOTED.**

11 Specifications in TSG-CN domain

NP-020279 CR 010 to 21.101: "Correction to list of specs". Source: MCC.

Status: **NOTED.**

NP-020280 CR 007 to 21.102: "Correction to list of specs". Source: MCC.

Status: **NOTED.**

NP-020281 TR 21.103 v2.0.0. Source: MCC.

Status: **NOTED.**

NP-020282 CR 006 to 01.01: "GSM Release 1999 specifications. Source: MCC.

Status: **NOTED.**

NP-020283 CR 005 to 41.102: "GSM Release 4 Specifications". Source: MCC.

Status: **NOTED.**

NP-020284 TR 41.103 v2.0.0. Source: MCC.

Comments: Keith Drage [Lucent] has indicated to JMM offline a list of IMS specifications that apply to both UMTS and GSM (20 series and 30 series) that need to be included in the list.

Status: **NOTED.**

NP-020285 Specs status list prior to TSGs#16. Source: MCC.

Comment: Following NP#16 MCC will upgrade all remaining Rel-4 specifications to v5.0.0 (if it has not yet been done).

Status: **NOTED.**

NP-020286 List of specs / releases. Source: MCC.

Status: **NOTED.**

12 Review of 3GPP Work Plan

NP-020146 3GPP Work Plan Source: MCC.

Comments: These items need to be included into the workplan:

- ?? MS stage 3 documents in CN1 in ID 1278 and ID 1998 were raised to 90 % complete. Due to open items we cannot claim that they are 100 % yet.
- ?? SIP extensions for integrity protection in ID 11014 is complete
- ?? The state of readiness of CN1 IMS stage 3 is reflected in Gm interface, ID 11020, which is also 90 % complete
- ?? 2 % was chosen as low non-zero figure to indicate that the discussion on Rel-6 presence service has started
- ?? All drafts which have become RFCs have been marked 100 % complete in the reference version of the work plan already. No changes to the maturity level of the remaining IETF drafts have been made.
- ?? For those drafts in the project plan:
- ?? If RFC# allocated ->100%
- ?? If in IETFLC -> 95%
- ?? If in WGLC -> 90%

From WID: Bearer independent architecture in the PS-domain

Note: In the 3GPP work plan, "Mc interface (IM-MGW to MGCF) enhancements " is currently listed as item 112 under this building block with the comment "no work required". This should be revised.

Status: **NOTED.**

NP-020147 3GPP Work Plan [Slide Presentation] Source: MCC.

Comments: Comments received from other Plenaries.

Status: **REVISED to 0321.**

? **REVISED** ?

NP-020321 **3GPP Work Plan [Slide Presentation].** Source: MCC.

Comments: Comments were taken to slides on-line during the meeting.

TO SLIDE 19 [IMS – General issues]: Add Related CRs approved in CN#16

TO SLIDE 20 [IMS – General issues]: Add comment on significant progress on IMS and IETF.

TO SLIDE 23 [Security issue]: Lawful interception for IMS needs to be checked.

TO SLIDE 25 [IMS Interfaces]: For Si interfaces simply see slide on CAMEL-Ph 4.

TO SLIDE 25 [IMS Interfaces]: For Mc, 29.232 = complete (in Rel-5)

TO SLIDE 25 [IMS interfaces]: Interface at Mc (MGCF – IM-MGW): WI for Rel-6 is approved.

TO SLIDE 27 [GTT]: A change is NOT required to support CTM for N. America as the issue is handled in the transposition from 3GPP specs to SDO specs.

TO SLIDE 31 [Camel Phase4]: .

TO SLIDE 45 [e2e QoS]: There is work required for RAN. Charging ID has been handled. Mapping of media types needs to be handled by SA/RAN

TO SLIDE 51: conflict between service numbers and emergency numbers is for SA1 to resolve.

TO SLIDE 73: Mg interface (BGCF to MGCF - interworking with CS) should be under Rel-5.

Status:

REVISED to 0319.

? **REVISED ?**

NP-020319 **3GPP Work Plan [Slide Presentation].** Source: MCC.

Status:

NOTED.

13 Postponed issues from earlier in the meeting

No Input.

14 Any other business

15 Close of Meeting

The Chairman thanked the host, delegates and MCC for their participation, and closed the meeting at 17:15 on Friday 7 June.

ANNEX A:OUTPUT MATERIAL

A.1 Liaisons Approved to be sent following TSG CN meeting #16

TDoc #	Tdoc Title	LS to	LS cc	Attach.
NP-020304	LS on CN Recommendations for Implementing CN Harmonization	SA	-	none
NP-020322	LS on coordination of SDO input to ITU-T Q-1741.2	ARIB, CWTS, ETSI, T1, TTA, TTC	SA	none

A.2 New TSs /TRs Approved at TSG CN meeting #16

TDoc #	Type	Spec	N_Vers	Tdoc Title	Source
NP-020264	TS	29.228	5.0.0	IP Multimedia (IM) Subsystem Cx and Dx Interfaces;Signalling flows and message contents	CN4
NP-020265	TS	29.229	5.0.0	Cx and Dx Interfaces based on the Diameter protocol;Protocol details	CN4
NP-020266	TS	29.329	5.0.0	Sh Interface based on the Diameter protocol;Protocol details	CN4
NP-020277	TS	29.328	5.0.0	IP Multimedia (IM) Subsystem Sh Interface;Signalling flows and message contents	CN4
NP-020166	TS	29.208	5.0.0	End-to-end QoS signalling flows	CN3
NP-020167	TS	29.207	5.0.0	Policy control over Go interface	CN3
NP-020168	TS	23.172	5.0.0	Technical Realization of Circuit Switched (CS) Multimedia Service; UDI/RDI Fallback and Service Modification	CN3
NP-020195	TS	29.198-13	5.0.0	API Part 13: Policy Management SCF	CN5
NP-020196	TS	29.198-14	5.0.0	OSA API Part 14: Presence and Availability Management (PAM)	CN5
NP-020197	TR	29.998-04-4	5.0.0	Mapping for OSA; Part 4: Call Control Service Mapping; Subpart 4: Multiparty Call Control - ISC	CN5

A.3 New / Revised Work Items Approved at TSG CN meeting #16

TDoc #	Tdoc Title	Source	Rel
NP-020305	Work Item Description for the Support of CAMEL by the IMS	CN2	Rel-5
NP-020320	Revised WID on interworking between IMS and CS [N3-020521]	CN3	Rel-6
NP-020323	Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols.	CN1	Rel-6
NP-020269	Work item description: Interworking of CS user plane between 3GPP and external PLMN/PSTN/ISDN	CN4	Rel-6
NP-020164	Revised WID for Service Change and UDI Fallback [N3-020315]	CN3	Rel-5

A.4 Status of CRs following TSG CN meeting #16

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
09.94	A010	2	Ph2	F	NP-020222	N1-021491	approved	QoS IE length	4.5.0	4.6.0	N1	TEI
09.94	A011	2	R96	A	NP-020222	N1-021493	approved	QoS IE length	5.0.0	5.1.0	N1	TEI
09.94	A012	2	R97	A	NP-020222	N1-021494	approved	QoS IE length	6.0.0	6.1.0	N1	TEI
09.94	A013	2	R98	A	NP-020222	N1-021495	approved	QoS IE length	6.1.0	7.0.0	N1	TEI
23.009	066	2	Rel-5	C	NP-020243	N1-020879	approved	Sending of RANAP Location Reporting Control on the E Interface	5.0.0	5.1.0	N1	TEI5
23.009	069		R99	F	NP-020218	N1-021280	approved	Clarification of the end of supervision after inter-MSC handover	3.9.0	3.10.0	N1	GSM/UMTS Interworking
23.009	070		Rel-4	A	NP-020218	N1-021281	approved	Clarification of the end of supervision after inter-MSC handover	4.3.0	4.4.0	N1	GSM/UMTS Interworking
23.009	071		Rel-5	A	NP-020218	N1-021282	approved	Clarification of the end of supervision after inter-MSC handover	5.0.0	5.1.0	N1	GSM/UMTS Interworking
23.009	074	1	Rel-5	F	NP-020243	N1-021426	approved	Clarification that Multicall is not supported in GERAN Iu-mode	5.0.0	5.1.0	N1	TEI5
23.009	075	1	R99	F	NP-020218	N1-021393	approved	Handling of Service Handover parameter in non-anchor	3.9.0	3.10.0	N1	GSM/UMTS Interworking
23.009	076	1	Rel-4	A	NP-020218	N1-021394	approved	Handling of Service Handover parameter in non-anchor	4.3.0	4.4.0	N1	GSM/UMTS Interworking
23.009	077	1	Rel-5	A	NP-020218	N1-021395	approved	Handling of Service Handover parameter in non-anchor	5.0.0	5.1.0	N1	GSM/UMTS Interworking
23.122	048		Rel-5	F	NP-020243	N1-021408	approved	Role of the equivalent PLMN list in the PLMN user reselection	4.1.0	5.0.0	N1	TEI5
23.218	002	3	Rel-5	F	NP-020226	N1-020972	approved	HSS providing to the S-CSCF the subset of the relevant end user profile	5.0.0	5.1.0	N1	IMS-CCR
23.218	003	10	Rel-5	F	NP-020226	N1-021405	approved	Clarification on SPI related text	5.0.0	5.1.0	N1	IMS-CCR
23.218	004	4	Rel-5	F	NP-020226	N1-021423	approved	Passing charging correlation information	5.0.0	5.1.0	N1	IMS-CCR
23.218	006	1	Rel-5	F	NP-020226	N1-020951	approved	Correction of terminology in 23.218 regarding Offer-counter offer answer	5.0.0	5.1.0	N1	IMS-CCR
23.218	012	5	Rel-5	F	NP-020226	N1-021425	approved	Update of the S-CSCF AS relationship, for REGISTER	5.0.0	5.1.0	N1	IMS-CCR
23.218	014	1	Rel-5	F	NP-020226	N1-021384	approved	User profile filter criteria updates	5.0.0	5.1.0	N1	IMS-CCR
23.218	015	1	Rel-5	F	NP-020226	N1-021385	approved	Add references for Sh and Si interfaces	5.0.0	5.1.0	N1	IMS-CCR
23.218	016	1	Rel-5	F	NP-020226	N1-021404	approved	SIP Application Server acting as a Gatewas to an external Application	5.0.0	5.1.0	N1	IMS-CCR
23.218	017	1	Rel-5	F	NP-020226	N1-021424	approved	Clarification to Handling of IP multimedia registration for barred public	5.0.0	5.1.0	N1	IMS-CCR
23.218	019		Rel-5	F	NP-020226	N1-021252	approved	Correction of COMET to UPDATE in 23.218	5.0.0	5.1.0	N1	IMS-CCR
24.007	046	2	R99	F	NP-020218	N1-021340	approved	RR protocol message type octet	3.8.0	3.9.0	N1	GSM/UMTS Interworking
24.007	047	2	Rel-4	A	NP-020218	N1-021341	approved	RR protocol message type octet	4.1.0	4.2.0	N1	GSM/UMTS Interworking
24.007	048	1	R99	F	NP-020222	N1-020892	approved	Clarification of the extension mechanism for type 4 IEs	3.8.0	3.9.0	N1	TEI
24.007	049	1	Rel-4	A	NP-020222	N1-020893	approved	Clarification of the extension mechanism for type 4 IEs	4.1.0	4.2.0	N1	TEI
24.007	052	1	R99	F	NP-020222	N1-021366	approved	Various clean-up of wrong references, eg towards 04.18 and 23.171	3.8.0	3.9.0	N1	TEI
24.007	053	1	Rel-4	F	NP-020224	N1-021367	approved	Various clean-up of wrong references, eg towards 44.018 and 23.271	4.1.0	4.2.0	N1	TEI4
24.008	535	2	Rel-4	F	NP-020220	N1-020887	approved	Correction of codec negotiation procedure	4.6.0	4.7.0	N1	TRFO-OOB
24.008	536	2	Rel-5	A	NP-020220	N1-020888	approved	Correction of codec negotiation procedure	5.3.0	5.4.0	N1	TRFO-OOB
24.008	551	3	Rel-5	C	NP-020241	N1-020748	approved	Service change and fallback for UDI/RDI multimedia multimediacalls	5.3.0	5.4.0	N1	SCUDIF
24.008	554	2	Rel-5	F	NP-020242	N1-020894	approved	Restriction of the 0kbits maximum bitrate	5.3.0	5.4.0	N1	TEI5
24.008	572	1	R99	F	NP-020220	N1-020720	approved	Support of UMTS AMR 2 in R99	3.11.0	3.12.0	N1	OoBTC
24.008	576	4	R99	F	NP-020223	N1-021389	approved	Authentication not accepted by MS	3.11.0	3.12.0	N1	TEI
24.008	577	4	Rel-4	A	NP-020223	N1-021390	approved	Authentication not accepted by MS	4.6.0	4.7.0	N1	TEI
24.008	578	2	Rel-5	A	NP-020223	N1-021278	approved	Authentication not accepted by MS	5.3.0	5.4.0	N1	TEI
24.008	579	1	R99	F	NP-020219	N1-020881	approved	Correction to CS domain specific system information	3.11.0	3.12.0	N1	GSM/UMTS interworking

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
24.008	580	1	Rel-4	A	NP-020219	N1-020882	approved	Correction to CS domain specific system information	4.6.0	4.7.0	N1	GSM/UMTS interworking
24.008	581	1	Rel-5	A	NP-020219	N1-020883	approved	Correction to CS domain specific system information	5.3.0	5.4.0	N1	GSM/UMTS interworking
24.008	592	2	Rel-5	A	NP-020219	N1-021388	approved	Impact of regional roaming restrictions on the MM state	5.3.0	5.4.0	N1	GSM/UMTS Interworking
24.008	593		R99	F	NP-020223	N1-020725	approved	Correction of repeat indicator IE	3.11.0	3.12.0	N1	TEI
24.008	594		Rel-4	A	NP-020223	N1-020726	approved	Correction of repeat indicator IE	4.6.0	4.7.0	N1	TEI
24.008	595		Rel-5	A	NP-020223	N1-020727	approved	Correction of repeat indicator IE	5.3.0	5.4.0	N1	TEI
24.008	596		R99	F	NP-020223	N1-020728	approved	Removal of the coding rules of type 4 IEs	3.11.0	3.12.0	N1	TEI
24.008	597		Rel-4	A	NP-020223	N1-020729	approved	Removal of the coding rules of type 4 IEs	4.6.0	4.7.0	N1	TEI
24.008	598		Rel-5	A	NP-020223	N1-020730	approved	Removal of the coding rules of type 4 IEs	5.3.0	5.4.0	N1	TEI
24.008	599	1	R99	F	NP-020219	N1-020889	approved	R97 and R99 Compatibility	3.11.0	3.12.0	N1	GSM/UMTS interworking
24.008	600	1	Rel-4	F	NP-020221	N1-020895	approved	Correction to text on DTMF handling	4.6.0	4.7.0	N1	CSSPLIT
24.008	601	1	Rel-5	A	NP-020221	N1-020896	approved	Correction to text on DTMF handling	5.3.0	5.4.0	N1	CSSPLIT
24.008	607	1	Rel-5	F	NP-020242	N1-020914	approved	Handling of SM STATUS(#81, #97) and invalid TI of Secondary PDP	5.3.0	5.4.0	N1	TEI5
24.008	611		Rel-4	A	NP-020219	N1-020890	approved	R97 and R99 Compatibility	4.6.0	4.7.0	N1	GSM/UMTS interworking
24.008	612		Rel-5	A	NP-020219	N1-020891	approved	R97 and R99 Compatibility	5.3.0	5.4.0	N1	GSM/UMTS interworking
24.008	615		Rel-5	F	NP-020242	N1-021127	approved	Deletion of ePLMN list when the fifth RAU attempt is reached	5.3.0	5.4.0	N1	TEI5
24.008	618	1	Rel-5	F	NP-020242	N1-021407	approved	Conditions when to update the "RPLMN Last used Access Technology"	5.3.0	5.4.0	N1	TEI5
24.008	619	1	Rel-5	F	NP-020242	N1-021409	approved	SIM removal and change of RA during detach procedure	5.3.0	5.4.0	N1	TEI5
24.008	623	1	R99	F	NP-020216	N1-021370	approved	Conflicting behaviour when UE receives AUTHENTICATION_REJECT	3.11.0	3.12.0	N1	Security
24.008	624	1	Rel-4	A	NP-020216	N1-021371	approved	Conflicting behaviour when UE receives AUTHENTICATION_REJECT	4.6.0	4.7.0	N1	Security
24.008	625	1	Rel-5	A	NP-020216	N1-021372	approved	Conflicting behaviour when UE receives AUTHENTICATION_REJECT	5.3.0	5.4.0	N1	Security
24.008	626		Rel-5	F	NP-020242	N1-021279	approved	Correction of definition of SSD in QoS IE	5.3.0	5.4.0	N1	TEI5
24.008	627	1	R99	F	NP-020219	N1-021386	approved	Impact of regional roaming restrictions on the MM state	3.11.0	3.12.0	N1	GSM/UMTS Interworking
24.008	628	1	Rel-4	A	NP-020219	N1-021387	approved	Impact of regional roaming restrictions on the MM state	4.6.0	4.7.0	N1	GSM/UMTS Interworking
24.008	630		Rel-5	C	NP-020225	N1-021289	approved	Support for IMS media Multiplexing in Session Management - TFT	5.3.0	5.4.0	N1	IMS-CCR
24.008	631		Rel-5	F	NP-020242	N1-021308	approved	Addition of missing references to TS 25.304	5.3.0	5.4.0	N1	TEI5
24.008	632	1	Rel-5	C	NP-020242	N1-021431	approved	DRX parameter update with RAU procedure	5.3.0	5.4.0	N1	TEI5
24.008	634	1	Rel-5	F	NP-020225	N1-021475	approved	PCO in Session Management procedures	5.3.0	5.4.0	N1	IMS-CCR
24.008	637	1	R99	F	NP-020217	N1-021396	approved	Alternative coding of radio access capabilities	3.11.0	3.12.0	N1	GPRS
24.008	638	1	Rel-4	A	NP-020217	N1-021397	approved	Alternative coding of radio access capabilities	4.6.0	4.7.0	N1	GPRS
24.008	639	1	Rel-5	A	NP-020217	N1-021398	approved	Alternative coding of radio access capabilities	5.3.0	5.4.0	N1	GPRS
24.008	640	2	Rel-4	F	NP-020301		approved	Indication of support of LCS via the PS domain in Iu-mode	4.6.0	4.7.0	N1	LCS1-PS
24.008	641	1	Rel-5	A	NP-020300		approved	Indication of support of LCS via the PS domain in Iu-mode	5.3.0	5.4.0	N1	LCS1-PS
24.008	642	2	Rel-5	F	NP-020311		approved	Addition of missing code point for 8-PSK Half Rate AMR	5.3.0	5.4.0	N1	TEI5
24.228	002	1	Rel-5	F	NP-020227	N1-020904	approved	Update of the authorization flows	5.0.0	5.1.0	N1	IMS-CCR
24.228	004	5	Rel-5	F	NP-020316		approved	MO, S-S, MT #1a reference flow update	5.0.0	5.1.0	N1	IMS-CCR
24.228	005		Rel-5	F	NP-020227	N1-020813	approved	Addition of Max-Forwards Header to Registration Flows	5.0.0	5.1.0	N1	IMS-CCR
24.228	010	1	Rel-5	F	NP-020227	N1-020916	approved	Integrity protection signal from P-CSCF to S-CSCF	5.0.0	5.1.0	N1	IMS-CCR
24.228	017	2	Rel-5	B	NP-020227	N1-021090	approved	DNS-NAPTR Query	5.0.0	5.1.0	N1	IMS-CCR
24.228	018	3	Rel-5	F	NP-020227	N1-021416	approved	General update of sections 10.1, 10.2 and 10.3	5.0.0	5.1.0	N1	IMS-CCR
24.228	019	5	Rel-5	F	NP-020227	N1-021505	approved	MO, S-S, MT #2 reference flows update	5.0.0	5.1.0	N1	IMS-CCR

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
24.228	020	2	Rel-5	F	NP-020227	N1-021413	approved	Session Redirection Flow Update	5.0.0	5.1.0	N1	IMS-CCR
24.228	021	2	Rel-5	F	NP-020227	N1-021414	approved	Session Transfer Flow Update	5.0.0	5.1.0	N1	IMS-CCR
24.228	022	1	Rel-5	F	NP-020227	N1-021087	approved	Addition of DHCPv6 references to 24.228	5.0.0	5.1.0	N1	IMS-CCR
24.228	023		Rel-5	F	NP-020228	N1-021040	approved	S-S#3 update	5.0.0	5.1.0	N1	IMS-CCR
24.228	024	1	Rel-5	F	NP-020228	N1-021229	approved	S-S#4 update	5.0.0	5.1.0	N1	IMS-CCR
24.228	025	3	Rel-5		NP-020228	N1-021239	approved	CS-O, CS-T Reference flow update	5.0.0	5.1.0	N1	IMS-CCR
24.228	027		Rel-5	F	NP-020228	N1-021151	approved	Update of Mobile terminal initiated session release flows (non-hiding)	5.0.0	5.1.0	N1	IMS-CCR
24.228	028	2	Rel-5	F	NP-020228	N1-021473	approved	Downloading the implicitly registered public user identities from the S-	5.0.0	5.1.0	N1	IMS-CCR
24.228	029	1	Rel-5	F	NP-020228	N1-021464	approved	Update of Mobile terminal initiated session release flows (hiding)	5.0.0	5.1.0	N1	IMS-CCR
24.228	030	1	Rel-5	F	NP-020228	N1-021435	approved	Correction of the subscription to the registration event package	5.0.0	5.1.0	N1	IMS-CCR
24.228	031	1	Rel-5	F	NP-020228	N1-021415	approved	Addition of further Media Streams Flow Update	5.0.0	5.1.0	N1	IMS-CCR
24.228	034	2	Rel-5	F	NP-020228	N1-021500	approved	MO#1a failures update	5.0.0	5.1.0	N1	IMS-CCR
24.228	035	2	Rel-5	F	NP-020228	N1-021501	approved	MT#1a failures update	5.0.0	5.1.0	N1	IMS-CCR
24.228	036	2	Rel-5	F	NP-020229	N1-021502	approved	S-S#1a failures update	5.0.0	5.1.0	N1	IMS-CCR
24.228	037	2	Rel-5	F	NP-020229	N1-021503	approved	MT#1c + MT#2a update	5.0.0	5.1.0	N1	IMS-CCR
24.228	038	2	Rel-5	F	NP-020229	N1-021504	approved	MT#1e update	5.0.0	5.1.0	N1	IMS-CCR
24.228	040	1	Rel-5	F	NP-020229	N1-021451	approved	Branch parameter corrections	5.0.0	5.1.0	N1	IMS-CCR
24.228	041		Rel-5	F	NP-020229	N1-021232	approved	Changing COMET to UPDATE in chapter 5	5.0.0	5.1.0	N1	IMS-CCR
24.228	042		Rel-5	F	NP-020229	N1-021233	approved	Update of chapter 7.4.8	5.0.0	5.1.0	N1	IMS-CCR
24.228	043	1	Rel-5	F	NP-020317		approved	Content of From/To headers	5.0.0	5.1.0	N1	IMS-CCR
24.228	044	1	Rel-5	F	NP-020229	N1-021381	approved	S-S#1b reference flows update	5.0.0	5.1.0	N1	IMS-CCR
24.228	046	2	Rel-5	F	NP-020288		approved	Adding security parameters to the call flows	5.0.0	5.1.0	N1	IMS-CCR
24.228	049	1	Rel-5	F	NP-020229	N1-021442	approved	S-CSCF allocation	5.0.0	5.1.0	N1	IMS-CCR
24.228	050	1	Rel-5	F	NP-020229	N1-021462	approved	Correction to Warn codes	5.0.0	5.1.0	N1	IMS-CCR
24.228	053		Rel-5	F	NP-020229	N1-021353	approved	Removal of Referred-By header from specification	5.0.0	5.1.0	N1	IMS-CCR
24.228	061	1	Rel-5	F	NP-020297		approved	MO#1b and MT#1b update	5.0.0	5.1.0	N1	IMS-CCR
24.228	062	2	Rel-5	F	NP-020309		approved	SS#1c update	5.0.0	5.1.0	N1	IMS-CCR
24.229	004	1	Rel-5	C	NP-020230	N1-020903	approved	S-CSCF Actions on Authentication Failure	5.0.0	5.1.0	N1	IMS-CCR
24.229	005	2	Rel-5	C	NP-020230	N1-020959	approved	Disallow Parallel Registrations	5.0.0	5.1.0	N1	IMS-CCR
24.229	007	1	Rel-5	F	NP-020230	N1-020910	approved	Hiding	5.0.0	5.1.0	N1	IMS-CCR
24.229	008	8	Rel-5	B	NP-020312		approved	Support for services for unregistered users	5.0.0	5.1.0	N1	IMS-CCR
24.229	009	1	Rel-5	F	NP-020230	N1-020921	approved	Editorials for GPRS Charging ID	5.0.0	5.1.0	N1	IMS-CCR
24.229	019		Rel-5	D	NP-020231	N1-020788	approved	MGCF procedure clarification	5.0.0	5.1.0	N1	IMS-CCR
24.229	020	2	Rel-5	F	NP-020231	N1-020960	approved	MGCF procedure error cases	5.0.0	5.1.0	N1	IMS-CCR
24.229	022	1	Rel-5	D	NP-020231	N1-020949	approved	Abbreviations clean up	5.0.0	5.1.0	N1	IMS-CCR
24.229	023		Rel-5	D	NP-020231	N1-020792	approved	Clarification of SIP usage outside IM CN subsystem	5.0.0	5.1.0	N1	IMS-CCR
24.229	024	3	Rel-5	C	NP-020314		approved	Replacement of COMET by UPDATE	5.0.0	5.1.0	N1	IMS-CCR
24.229	025	3	Rel-5	D	NP-020231	N1-021091	approved	Incorporation of current RFC numbers	5.0.0	5.1.0	N1	IMS-CCR
24.229	026	1	Rel-5	D	NP-020231	N1-020941	approved	Clarification of B2BUA usage in roles	5.0.0	5.1.0	N1	IMS-CCR
24.229	028	4	Rel-5	B	NP-020231	N1-021248	approved	Determination of MO / MT requests in I-CSCF(THIG)	5.0.0	5.1.0	N1	IMS-CCR
24.229	030	2	Rel-5	F	NP-020231	N1-021006	approved	P-CSCF release of an existing session	5.0.0	5.1.0	N1	IMS-CCR

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
24.229	031	1	Rel-5	F	NP-020232	N1-020939	approved	S-CSCF release of an existing session	5.0.0	5.1.0	N1	IMS-CCR
24.229	033	3	Rel-5	C	NP-020232	N1-020971	approved	SDP procedure at the UE	5.0.0	5.1.0	N1	IMS-CCR
24.229	035	1	Rel-5	F	NP-020232	N1-020934	approved	AS Procedures corrections	5.0.0	5.1.0	N1	IMS-CCR
24.229	036	8	Rel-5	C	NP-020232	N1-021499	approved	Corrections to SIP Compression	5.0.0	5.1.0	N1	IMS-CCR
24.229	037	1	Rel-5	F	NP-020232	N1-020928	approved	Enhancement of S-CSCF and I-CSCF Routing Procedures for	5.0.0	5.1.0	N1	IMS-CCR
24.229	041	2	Rel-5	F	NP-020232	N1-021003	approved	Delivery of IMS security parameters from S-CSCF to the F-CSCF by	5.0.0	5.1.0	N1	IMS-CCR
24.229	045		Rel-5	D	NP-020232	N1-020835	approved	Cleanup of request / response terminology - clause 5	5.0.0	5.1.0	N1	IMS-CCR
24.229	046		Rel-5	D	NP-020232	N1-020836	approved	Cleanup of request / response terminology - clause 6	5.0.0	5.1.0	N1	IMS-CCR
24.229	047	2	Rel-5	D	NP-020232	N1-021059	approved	Simplification of profile tables	5.0.0	5.1.0	N1	IMS-CCR
24.229	049		Rel-5	C	NP-020232	N1-020839	approved	Forking options	5.0.0	5.1.0	N1	IMS-CCR
24.229	050	1	Rel-5	C	NP-020315		approved	Media-Authorization header corrections	5.0.0	5.1.0	N1	IMS-CCR
24.229	051	1	Rel-5	F	NP-020233	N1-020950	approved	Clause 5.4 editorials (S-CSCF)	5.0.0	5.1.0	N1	IMS-CCR
24.229	053	2	Rel-5	F	NP-020233	N1-021007	approved	Integrity protection signalling from the P-CSCF to the S-CSCF	5.0.0	5.1.0	N1	IMS-CCR
24.229	054		Rel-5	B	NP-020233	N1-020847	approved	Representing IM CN subsystem functional entities in profile table roles	5.0.0	5.1.0	N1	IMS-CCR
24.229	055		Rel-5	D	NP-020233	N1-020848	approved	Clause 4 editorials	5.0.0	5.1.0	N1	IMS-CCR
24.229	056		Rel-5	D	NP-020233	N1-020849	approved	Clause 5.8 editorials (MRFC)	5.0.0	5.1.0	N1	IMS-CCR
24.229	057	1	Rel-5	D	NP-020233	N1-021001	approved	Annex A editorials, including precondition additions	5.0.0	5.1.0	N1	IMS-CCR
24.229	058	2	Rel-5	F	NP-020233	N1-021054	approved	Representing the registrar as a UA	5.0.0	5.1.0	N1	IMS-CCR
24.229	059		Rel-5	D	NP-020233	N1-020852	approved	Additional definitions	5.0.0	5.1.0	N1	IMS-CCR
24.229	060	1	Rel-5	F	NP-020312		approved	Restructuring of S-CSCF Registration Sections	5.0.0	5.1.0	N1	IMS-CCR
24.229	060	11	Rel-5	F	NP-020312	N1-021511	approved	Restructuring of S-CSCF Registration Sections	5.0.0		N1	IMS-CCR
24.229	061	2	Rel-5	F	NP-020234	N1-021060	approved	Determination of MOC / MTC at P-CSCF and S-CSCF	5.0.0	5.1.0	N1	IMS-CCR
24.229	062		Rel-5	F	NP-020234	N1-020927	approved	Correction to the terminating procedures	5.0.0	5.1.0	N1	IMS-CCR
24.229	063		Rel-5	F	NP-020234	N1-020940	approved	Loose Routing for Network Initiated Call Release Procedures	5.0.0	5.1.0	N1	IMS-CCR
24.229	064		Rel-5	F	NP-020234	N1-021004	approved	Incorporation of previously agreed corrections to clause 5.2.5.2 (N1-020416)	5.0.0	5.1.0	N1	IMS-CCR
24.229	065		Rel-5	D	NP-020234	N1-021005	approved	Clause 7.2 editorial corrections	5.0.0	5.1.0	N1	IMS-CCR
24.229	067	2	Rel-5	B	NP-020234	N1-021097	approved	S-CSCF routing of MO calls	5.0.0	5.1.0	N1	IMS-CCR
24.229	068	1	Rel-5	F	NP-020234	N1-021078	approved	I-CSCF routeing of dialog requests	5.0.0	5.1.0	N1	IMS-CCR
24.229	069	2	Rel-5	F	NP-020234	N1-021096	approved	Definition of the Tokanised-by parameter	5.0.0	5.1.0	N1	IMS-CCR
24.229	070	3	Rel-5	F	NP-020235	N1-021453	approved	SDP procedures at UE	5.0.0	5.1.0	N1	IMS-CCR
24.229	073	2	Rel-5	F	NP-020235	N1-021440	approved	Updates to the procedures involving the iFCs, following the Oulu iFC	5.0.0	5.1.0	N1	IMS-CCR
24.229	074	1	Rel-5	F	NP-020235	N1-021086	approved	Addition of DHCPv6 references to 24.229	5.0.0	5.1.0	N1	IMS-CCR
24.229	075	1	Rel-5	F	NP-020235	N1-021083	approved	Clarification to URL and address assignments	5.0.0	5.1.0	N1	IMS-CCR
24.229	079	3	Rel-5	F	NP-020235	N1-021510	approved	Downloading the implicitly registered public user identities from the S-	5.0.0	5.1.0	N1	IMS-CCR
24.229	080	3	Rel-5	F	NP-020235	N1-021486	approved	Clarification of GPRS aspects	5.0.0	5.1.0	N1	IMS-CCR
24.229	081	2	Rel-5	F	NP-020235	N1-021469	approved	Introduction of Subscription Locator Function Interrogation at I-CSCF in	5.0.0	5.1.0	N1	IMS-CCR
24.229	082	1	Rel-5	C	NP-020235	N1-021433	approved	Introduction of Visited_Network_ID p-header	5.0.0	5.1.0	N1	IMS-CCR
24.229	084	1	Rel-5	F	NP-020236	N1-021434	approved	MRFC register addresses	5.0.0	5.1.0	N1	IMS-CCR
24.229	085	1	Rel-5	F	NP-020236	N1-021470	approved	MRFC INVITE interface editor's notes	5.0.0	5.1.0	N1	IMS-CCR
24.229	086	1	Rel-5	F	NP-020236	N1-021471	approved	MRFC OPTIONS interface editor's notes	5.0.0	5.1.0	N1	IMS-CCR

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
24.229	087		Rel-5	F	NP-020236	N1-021159	approved	MRFC PRACK & INFO editor's notes	5.0.0	5.1.0	N1	IMS-CCR
24.229	088	1	Rel-5	F	NP-020236	N1-021472	approved	MGCF OPTIONS interface editor's notes	5.0.0	5.1.0	N1	IMS-CCR
24.229	089		Rel-5	F	NP-020236	N1-021161	approved	MGCF reINVITE editor's notes	5.0.0	5.1.0	N1	IMS-CCR
24.229	090		Rel-5	F	NP-020237	N1-021162	approved	3PCC AS editor's notes	5.0.0	5.1.0	N1	IMS-CCR
24.229	091		Rel-5	F	NP-020237	N1-021163	approved	AS acting as terminating UA editor's notes	5.0.0	5.1.0	N1	IMS-CCR
24.229	092	1	Rel-5	F	NP-020237	N1-021466	approved	AS acting as originating UA editor's notes	5.0.0	5.1.0	N1	IMS-CCR
24.229	093	2	Rel-5	F	NP-020237	N1-021512	approved	Charging overview clause	5.0.0	5.1.0	N1	IMS-CCR
24.229	094	1	Rel-5	F	NP-020237	N1-021456	approved	Procedures for original-dialog-id P-header	5.0.0	5.1.0	N1	IMS-CCR
24.229	095	2	Rel-5	F	NP-020237	N1-021513	approved	Procedures for charging-vector P-header	5.0.0	5.1.0	N1	IMS-CCR
24.229	096	1	Rel-5	F	NP-020237	N1-021458	approved	Procedures for charging-function-addresses P-header	5.0.0	5.1.0	N1	IMS-CCR
24.229	097	1	Rel-5	F	NP-020237	N1-021467	approved	SDP types	5.0.0	5.1.0	N1	IMS-CCR
24.229	100		Rel-5	F	NP-020237	N1-021173	approved	Removal of State from profile tables	5.0.0	5.1.0	N1	IMS-CCR
24.229	101		Rel-5	F	NP-020238	N1-021174	approved	Editor's note cleanup - clause 3	5.0.0	5.1.0	N1	IMS-CCR
24.229	102		Rel-5	F	NP-020238	N1-021175	approved	Editor's note cleanup - clause 4	5.0.0	5.1.0	N1	IMS-CCR
24.229	103		Rel-5	F	NP-020238	N1-021176	approved	Editor's note cleanup - clause 5.1 and deletion of void subclauses	5.0.0	5.1.0	N1	IMS-CCR
24.229	104	1	Rel-5	F	NP-020238	N1-021487	approved	Editor's note cleanup - clause 5.2 and deletion of void subclauses	5.0.0	5.1.0	N1	IMS-CCR
24.229	105		Rel-5	F	NP-020238	N1-021178	approved	Editor's note cleanup - clause 5.3	5.0.0	5.1.0	N1	IMS-CCR
24.229	106		Rel-5	F	NP-020238	N1-021179	approved	Editor's note cleanup - clause 5.4 and deletion of void subclauses	5.0.0	5.1.0	N1	IMS-CCR
24.229	107		Rel-5	F	NP-020238	N1-021180	approved	Editor's note cleanup - clause 5.5 and deletion of void subclauses	5.0.0	5.1.0	N1	IMS-CCR
24.229	110		Rel-5	F	NP-020238	N1-021183	approved	Editor's note cleanup - clause 6	5.0.0	5.1.0	N1	IMS-CCR
24.229	111		Rel-5	F	NP-020238	N1-021184	approved	Editor's note cleanup - clause 9	5.0.0	5.1.0	N1	IMS-CCR
24.229	113	1	Rel-5	C	NP-020239	N1-021465	approved	SIP Default Timers	5.0.0	5.1.0	N1	IMS-CCR
24.229	114	1	Rel-5	F	NP-020239	N1-021436	approved	Correction of the subscription to the registration event package	5.0.0	5.1.0	N1	IMS-CCR
24.229	115	1	Rel-5	B	NP-020239	N1-021441	approved	Support for ISIMless UICC	5.0.0	5.1.0	N1	IMS-CCR
24.229	119	1	Rel-5	F	NP-020239	N1-021452	approved	SIP procedures at UE	5.0.0	5.1.0	N1	IMS-CCR
24.229	121	2	Rel-5	F	NP-020239	N1-021509	approved	New requirements in the P-CSCF	5.0.0	5.1.0	N1	IMS-CCR
24.229	122		Rel-5	F	NP-020239	N1-021264	approved	SDP procedures at MGCF	5.0.0	5.1.0	N1	IMS-CCR
24.229	124	1	Rel-5	F	NP-020239	N1-021443	approved	S-CSCF allocation	5.0.0	5.1.0	N1	IMS-CCR
24.229	129	1	Rel-5	C	NP-020240	N1-021498	approved	Introduction of P-Access-Network-Info header	5.0.0	5.1.0	N1	IMS-CCR
24.229	130	2	Rel-5	F	NP-020240	N1-021508	approved	Usage of Path and P-Service Route	5.0.0	5.1.0	N1	IMS-CCR
24.229	133		Rel-5	F	NP-020240	N1-021354	approved	Removal of Referred-By header from specification	5.0.0	5.1.0	N1	IMS-CCR
24.229	134		Rel-5	F	NP-020240	N1-021357	approved	Handling of Record-Route header in profile tables	5.0.0	5.1.0	N1	IMS-CCR
24.229	135	1	Rel-5	B	NP-020312		approved	Asserted identities and privacy	5.0.0	5.1.0	N1	IMS-CCR
24.229	136		Rel-5	F	NP-020240	N1-021359	approved	Removal of caller preferences from specification	5.0.0	5.1.0	N1	IMS-CCR
24.229	137		Rel-5	F	NP-020240	N1-021360	approved	Substitution of REFER references	5.0.0	5.1.0	N1	IMS-CCR
24.229	138		Rel-5	F	NP-020240	N1-021361	approved	Removal of session timer from specification	5.0.0	5.1.0	N1	IMS-CCR
29.016	006		Rel-4	F	NP-020224	N1-021326	approved	Various clean-up of wrong references	4.0.0	4.1.0	N1	TEI4
29.018	029		R99	F	NP-020223	N1-020853	approved	Various clean-up of wrong references, as eg 24.008 instead of 04.18	3.9.0	3.10.0	N1	TEI
29.018	030		Rel-4	F	NP-020224	N1-020854	approved	Various clean-up of wrong references, as eg 24.008 instead of 44.018	4.3.0	4.4.0	N1	TEI4
29.018	031		Rel-5	A	NP-020224	N1-020855	approved	Various clean-up of wrong references, as eg 24.008 instead of 44.018	5.1.0	5.2.0	N1	TEI4
29.994	A014	2	R99	A	NP-020222	N1-021496	approved	QoS IE length	4.5.0	3.0.0	N1	TEI

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.994	A015	2	Rel-4	A	NP-020222	N1-021497	approved	QoS IE length	4.5.0	4.0.0	N1	TEI
29.994	A016	1	Rel-5	A	NP-020222	N1-021374	approved	QoS IE length	4.5.0	5.0.0	N1	TEI
44.001	001		Rel-4	F	NP-020224	N1-021191	approved	Various clean-up of wrong references	4.0.0	4.1.0	N1	TEI4
44.013	001		Rel-4	F	NP-020224	N1-021344	approved	Various clean-up of wrong references, eg towards 44.018	4.0.0	4.1.0	N1	TEI4
44.068	003	1	Rel-4	F	NP-020224	N1-021368	approved	Various clean-up of wrong references, eg towards 44.018	4.2.0	4.3.0	N1	TEI4
44.069	003	1	Rel-4	F	NP-020224	N1-021369	approved	Various clean-up of wrong references, eg towards 44.018	4.2.0	4.3.0	N1	TEI4
24.008	640		Rel-4	F	NP-020270		revised	Indication of support of LCS via the PS domain in lu-mode	4.6.0		N1	LCS1-PS
24.008	640	1	Rel-4	F	NP-020289		revised	Indication of support of LCS via the PS domain in lu-mode	4.6.0	4.7.0	N1	LCS1-PS
24.008	641		Rel-5	A	NP-020271		revised	Indication of support of LCS via the PS domain in lu-mode	5.3.0		N1	LCS1-PS
24.008	642		Rel-5	F	NP-020273		revised	Addition of missing code point for 8-PSK Half Rate AMR	5.3.0		N1	TEI5
24.008	642	1	Rel-5	F	NP-020292		revised	Addition of missing code point for 8-PSK Half Rate AMR	5.3.0		N1	OoBTC
24.228	004	3	Rel-5	F	NP-020227	N1-021061	revised	MO, S-S, MT #1a reference flow update	5.0.0		N1	IMS-CCR
24.228	062	1	Rel-5	F	NP-020296		revised	SS#1c update	5.0.0		N1	IMS-CCR
24.229	008	7	Rel-5	B	NP-020230	N1-021506	rejected	Support for services for unregistered users	5.0.0		N1	IMS-CCR
24.229	010	1	Rel-5	F	NP-020230	N1-020922	withdrawn	Passing GCID to AS	5.0.0		N1	IMS-CCR
24.229	011	1	Rel-5	F	NP-020230	N1-020907	withdrawn	Passing registration ICID	5.0.0		N1	IMS-CCR
24.229	012	2	Rel-5	F	NP-020230	N1-020967	withdrawn	Passing IOI	5.0.0		N1	IMS-CCR
24.229	013	1	Rel-5	F	NP-020230	N1-020924	withdrawn	Passing charging function addresses	5.0.0		N1	IMS-CCR
24.229	018		Rel-5	F	NP-020230	N1-020787	withdrawn	Corrections to original-dialog-id	5.0.0		N1	IMS-CCR
24.229	024	2	Rel-5	C	NP-020231	N1-021169	revised	Replacement of COMET by UPDATE	5.0.0		N1	IMS-CCR
24.229	050		Rel-5	C	NP-020233	N1-020840	revised	Media-Authorization header corrections	5.0.0		N1	IMS-CCR
24.229	060	10	Rel-5	F	NP-020234	N1-021511	revised	Restructuring of S-CSCF Registration Sections	5.0.0		N1	IMS-CCR
24.229	080	4	Rel-5	B	NP-020276		revised	Introduction of IPv6 prefix and binding information	5.0.0		N1	IMS-CCR
03.78	A170	2	R97	F	NP-020202	N2-020441	approved	Clarification in the case multiple RRBs are sent for a DP	6.10.0	6.11.0	N2	CAMEL2
03.78	A171	1	R98	A	NP-020202	N2-020451	approved	Clarification in the case multiple RRBs are sent for a DP	7.7.0	7.8.0	N2	CAMEL2
23.078	394	1	Rel-5	B	NP-020205	N2-020626	approved	Composite changes for CAMEL phase 4	4.4.0	5.0.0	N2	CAMEL4
23.078	395	1	R99	F	NP-020203	N2-020434	approved	Correction of EventReportGPRS parameter QOS	3.12.0	3.13.0	N2	CAMEL3
23.078	396	1	Rel-4	FA	NP-020203	N2-020435	approved	Correction of EventReportGPRS parameter QOS	4.4.0	4.5.0	N2	CAMEL3
23.078	397	2	R99	AE	NP-020204	N2-020564	approved	Clarifications on CAMEL3-ATM/ATM-ack	3.12.0	3.13.0	N2	CAMEL3
23.078	398	1	R99	A	NP-020202	N2-020452	approved	Clarification in the case multiple RRBs are sent for a DP	3.12.0	3.13.0	N2	CAMEL2
23.078	399	1	Rel-4	A	NP-020202	N2-020453	approved	Clarification in the case multiple RRBs are sent for a DP	4.4.0	4.5.0	N2	CAMEL2
23.078	405	1	R99	F	NP-020204	N2-020567	approved	Corrections to CTR and ETC Procedures	3.12.0	3.13.0	N2	CAMEL3
23.078	406	1	Rel-4	A	NP-020204	N2-020568	approved	Corrections to CTR and ETC Procedures	4.4.0	4.5.0	N2	CAMEL3
23.078	407		Rel-4	A	NP-020204	N2-020565	approved	Clarifications on ATM-req/ATM-ack	4.4.0	4.5.0	N2	CAMEL3
23.078	408	2	R99	F	NP-020204	N2-020619	approved	Clarification of PDP id for GPRS control	3.12.0	3.13.0	N2	CAMEL3
23.078	410		Rel-4	A	NP-020204	N2-020620	approved	Clarification of PDP id for GPRS control	4.4.0	4.5.0	N2	CAMEL3
29.078	244	1	Rel-5	B	NP-020206	N2-020627	approved	Composite changes for CAMEL phase 4	4.4.0	5.0.0	N2	CAMEL4
29.078	252		R99	F	NP-020204	N2-020562	approved	Correction of GPRS MS Class	3.11.0	3.12.0	N2	CAMEL3
29.078	253		Rel-4	A	NP-020204	N2-020586	approved	Correction of GPRS MS Class	4.4.0	4.5.0	N2	CAMEL3
09.61	A035	-	R97	F	NP-020295		approved	Corrections to the 3GPP RADIUS attributes	6.7.0	6.8.0	N3	GPRS
09.61	A036	-	R98	A	NP-020295		approved	Corrections to the 3GPP RADIUS attributes	7.6.0	7.7.0	N3	GPRS

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
09.61	A037	1	R97	F	NP-020295		approved	Clarification on the Radius Flows	6.7.0	6.8.0	N3	GPRS
09.61	A038	1	R98	A	NP-020295		approved	Clarification on the Radius Flows	7.6.0	7.7.0	N3	GPRS
27.001	071	7	Rel-5	C	NP-020169	N3-020284	approved	Service change and fallback for UDI/RDI multimedia calls	5.1.0	5.2.0	N3	SCUDIF
27.001	077	1	Rel-5	F	NP-020172	N3-020304	approved	Multislot clarification	5.1.0	5.2.0	N3	TEI [CS Data]
27.060	017	3	Rel-5	A	NP-020171	N3-020504	approved	IPv6 Address autoconfiguration	5.0.0	5.1.0	N3	TEI [GPRS]
27.060	018	-	R99	F	NP-020171	N3-020505	approved	IPv6 Address autoconfiguration	3.5.0	3.6.0	N3	TEI [GPRS]
27.060	019	-	Rel-4	A	NP-020171	N3-020506	approved	IPv6 Address autoconfiguration	4.0.0	4.1.0	N3	TEI [GPRS]
29.007	046	6	Rel-5	C	NP-020169	N3-020311	approved	Service change and fallback for UDI/RDI multimedia calls	5.1.0	5.2.0	N3	SCUDIF
29.007	048	1	Rel-5	F	NP-020172	N3-020281	approved	Clarification to VMSC/HLR logic for modem/facsimile calls	5.1.0	5.2.0	N3	TEI [CS Data]
29.007	050	2	R99	F	NP-020172	N3-020312	approved	Signalling of FTM calls	3.9.0	3.10.0	N3	TEI [CS Data]
29.007	051	1	Rel-4	A	NP-020172	N3-020313	approved	Signalling of FTM calls	4.3.0	4.4.0	N3	TEI [CS Data]
29.007	052	1	Rel-5	A	NP-020172	N3-020314	approved	Signalling of FTM calls	5.1.0	5.2.0	N3	TEI [CS Data]
29.061	044	4	Rel-5	A	NP-020171	N3-020460	approved	Address autoconfiguration of IPv6 terminals and IPv6 update	5.1.0	5.2.0	N3	TEI [GPRS]
29.061	047	2	R99	A	NP-020295		approved	Clarification on the Radius Flows	3.9.0	3.10.0	N3	GPRS
29.061	048	1	Rel-4	A	NP-020295		approved	Corrections to the 3GPP RADIUS attributes	4.4.0	4.5.0	N3	GPRS
29.061	053	-	R99	A	NP-020295		approved	Corrections to the 3GPP RADIUS attributes	3.9.0	3.10.0	N3	GPRS
29.061	054	-	Rel-5	A	NP-020295		approved	Corrections to the 3GPP RADIUS attributes	5.1.0	5.2.0	N3	GPRS
29.061	055	3	Rel-4	A	NP-020295		approved	Clarification on the Radius Flows	4.4.0	4.5.0	N3	GPRS
29.061	056	1	Rel-5	A	NP-020295		approved	Clarification on the Radius Flows	5.1.0	5.2.0	N3	GPRS
29.061	059	-	R99	F	NP-020171	N3-020477	approved	Address autoconfiguration of IPv6 terminals and IPv6 update	3.9.0	3.10.0	N3	TEI [GPRS]
29.061	060	-	Rel-4	A	NP-020171	N3-020478	approved	Address autoconfiguration of IPv6 terminals and IPv6 update	4.4.0	4.5.0	N3	TEI [GPRS]
09.61	A035	-	R97	F	NP-020170	N3-020291	revised	Corrections to the 3GPP RADIUS attributes	6.7.0		N3	GPRS
09.61	A036	-	R98	A	NP-020170	N3-020292	revised	Corrections to the 3GPP RADIUS attributes	7.6.0		N3	GPRS
09.61	A037	1	R97	F	NP-020170	N3-020350	revised	Clarifications on the RADIUS flows	6.7.0		N3	GPRS
09.61	A038	1	R98	A	NP-020170	N3-020351	revised	Clarifications on the RADIUS flows	7.6.0		N3	GPRS
29.061	047	1	R99	A	NP-020170	N3-020352	revised	Clarifications on the RADIUS flows	3.9.0		N3	GPRS
29.061	048	1	Rel-4	A	NP-020170	N3-020294	revised	Corrections to the 3GPP RADIUS attributes	4.4.0		N3	GPRS
29.061	053	-	R99	A	NP-020170	N3-020293	revised	Corrections to the 3GPP RADIUS attributes	3.9.0		N3	GPRS
29.061	054	-	Rel-5	A	NP-020170	N3-020295	revised	Corrections to the 3GPP RADIUS attributes	5.1.0		N3	GPRS
29.061	055	3	Rel-4	A	NP-020170	N3-020353	revised	Clarifications on the RADIUS flows	4.4.0		N3	GPRS
29.061	056	1	Rel-5	A	NP-020170	N3-020354	revised	Clarifications on the RADIUS flows	5.1.0		N3	GPRS
03.03	A055		R97	F	NP-020258	N4-020709	approved	Restructuring the IMEI to combine the TAC and FAC	6.6.0	6.7.0	N4	TEI
03.03	A056		R98	A	NP-020258	N4-020710	approved	Restructuring the IMEI to combine the TAC and FAC	7.6.0	7.7.0	N4	TEI
09.60	A111		R97	F	NP-020250	N4-020591	approved	Addition of APN-OI to Inter-SGSN RAU	6.11.0	6.12.0	N4	GTP enhancement
09.60	A112		R98	A	NP-020250	N4-020592	approved	Addition of APN-OI to Inter-SGSN RAU	7.8.0	7.9.0	N4	GTP enhancement
23.003	037	1	Rel-5	C	NP-020252	N4-020513	approved	IuFlex support for determining old SGSN during handover/relocation	5.2.0	5.3.0	N4	IUFLEX
23.003	038		Rel-5	F	NP-020252	N4-020453	approved	Allocation of unique prefixes to IPv6 terminals	5.2.0	5.3.0	N4	IMS-CCR
23.003	039		R99	F	NP-020252	N4-020488	approved	Allocation of unique prefixes to IPv6 terminals	3.9.0	3.10.	N4	IMS-CCR
23.003	040		Rel-4	A	NP-020252	N4-020489	approved	Allocation of unique prefixes to IPv6 terminals	4.3.0	4.4.0	N4	IMS-CCR
23.003	041	2	Rel-5	F	NP-020252	N4-020774	approved	Use of a temporary public user identity	5.2.0	5.3.0	N4	IMS-CCR
23.003	042		R99	A	NP-020258	N4-020711	approved	Restructuring the IMEI to combine the TAC and FAC	3.9.0	3.10.0	N4	TEI

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23.003	043		Rel-4	A	NP-020258	N4-020712	approved	Restructuring the IMEI to combine the TAC and FAC	4.3.0	4.4.0	N4	TEI
23.003	044		Rel-5	A	NP-020258	N4-020713	approved	Restructuring the IMEI to combine the TAC and FAC	5.2.0	5.3.0	N4	TEI
23.003	045		Rel-5	F	NP-020260	N4-020719	approved	Use of the TLLI codespace in GERAN Iu mode	5.2.0	5.3.0	N4	TEI5
23.007	006		R99	F	NP-020258	N4-020670	approved	Removal of an optional IMSI paging after SGSN restart	3.4.0	3.5.0	N4	TEI
23.007	007		Rel-4	A	NP-020258	N4-020672	approved	Removal of an optional IMSI paging after SGSN restart	4.0.0	4.1.0	N4	TEI
23.008	041	2	Rel-5	C	NP-020252	N4-020525	approved	Filter Criteria Modifications	5.0.0	5.1.0	N4	IMS
23.008	043		Rel-5	C	NP-020252	N4-020370	approved	Correction to TS 23.008	5.0.0	5.1.0	N4	IMS
23.008	044		Rel-5	F	NP-020248	N4-020475	approved	Correction of the DP criteria table for T-CSI and VT-CSI on the Rel05	5.0.0	5.1.0	N4	CAMEL4
23.008	045	1	Rel-5	B	NP-020248	N4-020730	approved	Splitting of CAMEL phase 4	5.0.0	5.1.0	N4	CAMEL4
23.008	047	1	Rel-5	B	NP-020252	N4-020738	approved	Service-Indication	5.0.0	5.1.0	N4	IMS
23.008	048	1	Rel-5	B	NP-020252	N4-020693	approved	CR on the charging function address format	5.0.0	5.1.0	N4	IMS
23.008	049		R99	F	NP-020258	N4-020669	approved	Alignment of 23.008	3.6.0	3.7.0	N4	GTP enhancement
23.008	050		Rel-4	A	NP-020258	N4-020671	approved	Alignment of 23.008	4.1.0	4.2.0	N4	GTP enhancement
23.008	051		Rel-5	F	NP-020248	N4-020701	approved	Correction of errors introduced with the taken account of CAMEL 4	5.0.0	5.1.0	N4	CAMEL4
23.008	052	1	Rel-5	B	NP-020255	N4-020740	approved	Service type	5.0.0	5.1.0	N4	LCS1
23.008	053		Rel-5	A	NP-020258	N4-020741	approved	Alignment of 23.008	5.0.0	5.1.0	N4	GTP enhancement
23.016	024		Rel-4	F	NP-020254	N4-020375	Approved	Clarification of introducing Session related and unrelated class	4.1.0	4.2.0	N4	LCS1-PS
23.016	025		Rel-5	A	NP-020254	N4-020376	Approved	Clarification of introducing Session related and unrelated class	5.0.0	5.1.0	N4	LCS1-PS
23.016	026		Rel-5	B	NP-020256	N4-020687	approved	on Codeword and Service Type	5.0.0	5.1.0	N4	LCS1-PS
23.079	017		R99	F	NP-020258	N4-020658	approved	Clarifications to Resume Call Handling	3.6.0	3.7.0	N4	TEI
23.079	018		Rel-4	A	NP-020258	N4-020659	approved	Clarifications to Resume Call Handling	4.0.0	4.1.0	N4	TEI
23.079	019		Rel-5	A	NP-020258	N4-020660	approved	Clarifications to Resume Call Handling	5.0.0	5.1.0	N4	TEI
23.082	013		R99	F	NP-020258	N4-020398	approved	"Long FTN Supported" to be transferred from VLR to HLR	3.6.0	3.7.0	N4	TEI
23.082	014		Rel-4	A	NP-020258	N4-020399	approved	"Long FTN Supported" to be transferred from VLR to HLR	4.2.0	4.3.0	N4	TEI
23.153	033	2	Rel-5	B	NP-020247	N4-020702	approved	Introduction of AMR-WB	5.0.0	5.1.0	N4	AMRWB
23.205	024		Rel-5	B	NP-020260	N4-020350	approved	MSC server GTT enhancement	5.1.0	5.2.0	N4	TEI5 (CSSPLIT)
23.205	025	1	Rel-5	B	NP-020260	N4-020579	approved	Alignment of terminology regarding GERAN access	5.1.0	5.2.0	N4	TEI5
23.205	027		Rel-4	F	NP-020249	N4-020613	approved	Correction of an incorrect reference in Section 8.3.3.2	4.4.0	4.5.0	N4	CSSPLIT
23.205	028		Rel-5	A	NP-020249	N4-020614	approved	Correction of an incorrect reference in Section 8.3.3.2	5.1.0	5.2.0	N4	CSSPLIT
24.030	013		Rel-5	B	NP-020256	N4-020405	approved	LCS : Codeword and Service Type	5.0.0	5.1.0	N4	LCS1
24.080	016		Rel-5	B	NP-020256	N4-020406	approved	LCS : Codeword and Service Type	5.0.0	5.1.0	N4	LCS1
24.080	017	1	Rel-4	F	NP-020254	N4-020508	Approved	LCS : Error handling if wrong method requested in LCS-MOLR	4.2.0	4.3.0	N4	LCS1
24.080	018	1	Rel-5	A	NP-020254	N4-020509	Approved	LCS : Error handling if wrong method requested in LCS-MOLR	5.0.0	5.1.0	N4	LCS1
24.080	020		Rel-5	F	NP-020260	N4-020544	approved	Correction of Object Identifiers for ASN.1 modules	5.0.0	5.1.0	N4	TEI5
24.080	021		R99	F	NP-020254	N4-020633	Approved	LCS: error handling if shape not supported by MS	3.6.0	3.7.0	N4	LCS
24.080	022		Rel-4	A	NP-020254	N4-020634	Approved	LCS: error handling if shape not supported by MS	4.2.0	4.3.0	N4	LCS
24.080	023		Rel-5	A	NP-020254	N4-020635	Approved	LCS: error handling if shape not supported by MS	5.0.0	5.1.0	N4	LCS
29.002	397	3	Rel-4	C	NP-020268	N4-020528	approved	Check of NAM and Requesting Node Type on receipt of	4.7.0	4.8.0	N4	TEI4
29.002	398	1	Rel-5	A	NP-020259	N4-020318	approved	Check of NAM and Requesting Node Type on receipt of	5.1.0	5.2.0	N4	TEI4
29.002	408	2	Rel-5	B	NP-020248	N4-020485	approved	Transferring the MS classmark & IMEI to the fgsmSCF	5.1.0	5.2.0	N4	CAMEL4
29.002	409		Rel-4	F	NP-020259	N4-020332	approved	Handling the MNRR flag in the HLR & SMS-GMSC	4.7.0	4.8.0	N4	TEI4

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.002	410		Rel-5	A	NP-020259	N4-020333	approved	Handling the MNRR flag in the HLR & SMS-GMSC	5.1.0	5.2.0	N4	TEI4
29.002	414	1	Rel-5	F	NP-020248	N4-020468	approved	Corrections to the handling of Any Time Interrogation and Provide	5.1.0	5.2.0	N4	CAMEL4
29.002	419	1	Rel-4	F	NP-020254	N4-020498	Approved	Clarification of introducing Session related and unrelated class	4.7.0	4.8.0	N4	LCS1-PS
29.002	420	1	Rel-5	A	NP-020254	N4-020499	Approved	Clarification of introducing Session related and unrelated class	5.1.0	5.2.0	N4	LCS1-PS
29.002	421	5	Rel-5	B	NP-020256	N4-020703	approved	LCS : Codeword and Service Type	5.1.0	5.2.0	N4	LCS1
29.002	422	1	Rel-5	F	NP-020248	N4-020483	approved	CAMEL4 : Triggering of gsmSCF for MT-SMS-CSI	5.1.0	5.2.0	N4	CAMEL4
29.002	423		Rel-5	F	NP-020248	N4-020408	approved	CAMEL4 : Clarification of handling of MT-SMS-TPDU-Type and SMS-	5.1.0	5.2.0	N4	CAMEL4
29.002	424		Rel-4	F	NP-020254	N4-020409	Approved	LCS : Clarify conditions to trigger restart of MTLR-Deferred procedure	4.7.0	4.8.0	N4	LCS1
29.002	425		Rel-5	A	NP-020254	N4-020410	Approved	LCS : Clarify conditions to trigger restart of MTLR-Deferred procedure	5.1.0	5.2.0	N4	LCS1
29.002	426	1	R99	F	NP-020254	N4-020505	Approved	LCS : on error handling if shape not supported by GMLC	3.12.0	3.13.0	N4	LCS
29.002	427	2	Rel-4	F	NP-020254	N4-020529	Approved	LCS : on error handling if shape not supported by GMLC	4.7.0	4.8.0	N4	LCS
29.002	428	2	Rel-5	A	NP-020254	N4-020530	Approved	LCS : on error handling if shape not supported by GMLC	5.1.0	5.2.0	N4	LCS
29.002	429	1	Rel-4	F	NP-020254	N4-020510	Approved	Corrections on the introduction of LCS for PS domain	4.7.0	4.8.0	N4	LCS1
29.002	430	1	Rel-5	A	NP-020254	N4-020511	Approved	Corrections on the introduction of LCS for PS domain	5.1.0	5.2.0	N4	LCS1
29.002	435	1	Rel-5	D	NP-020248	N4-020476	approved	Change PS-connected to PS-PDPactive	5.1.0	5.2.0	N4	CAMEL4
29.002	436	1	Rel-5	B	NP-020248	N4-020756	approved	Splitting of CAMEL phase 4	5.1.0	5.2.0	N4	CAMEL4
29.002	438	2	R99	F	NP-020258	N4-020744	approved	Clarification on SendAuthenticationInfo	3.12.0	3.13.0	N4	TEI
29.002	439	2	Rel-4	A	NP-020258	N4-020745	approved	Clarification on SendAuthenticationInfo	4.7.0	4.8.0	N4	TEI
29.002	440	2	Rel-5	A	NP-020258	N4-020746	approved	Clarification on SendAuthenticationInfo	5.1.0	5.2.0	N4	TEI
29.002	441		Rel-5	F	NP-020260	N4-020543	approved	Correction of Object Identifiers for ASN.1 modules	5.1.0	5.2.0	N4	TEI5
29.002	444	2	R99	F	NP-020251	N4-020775	approved	Addition of Service Handover parameters to MAP Handover messages	3.12.0	3.13.0	N4	Handover
29.002	445	1	Rel-4	A	NP-020251	N4-020749	approved	Addition of Service Handover parameters to MAP Handover messages	4.7.0	4.8.0	N4	Handover
29.002	446	1	Rel-5	A	NP-020251	N4-020750	approved	Addition of Service Handover parameters to MAP Handover messages	5.1.0	5.2.0	N4	Handover
29.002	447	1	Rel-4	F	NP-020259	N4-020742	approved	Editorial corrections in SS-code chapter	4.7.0	4.8.0	N4	TEI4
29.002	448	1	Rel-5	A	NP-020259	N4-020743	approved	Editorial corrections in SS-code chapter	5.1.0	5.2.0	N4	TEI4
29.002	450		Rel-5	A	NP-020256	N4-020608	approved	Correction to LCS in the PS domain	5.1.0	5.2.0	N4	LCS1
29.002	451		R99	F	NP-020256	N4-020620	approved	Addition of Radio Resource List to the Forward Access Signalling	3.12.0	3.13.0	N4	Multicall
29.002	452		Rel-4	A	NP-020256	N4-020621	approved	Addition of Radio Resource List to the Forward Access Signalling	4.7.0	4.8.0	N4	Multicall
29.002	453		Rel-5	A	NP-020256	N4-020622	approved	Addition of Radio Resource List to the Forward Access Signalling	5.1.0	5.2.0	N4	Multicall
29.002	454		Rel-5	B	NP-020248	N4-020623	approved	Addition of Location Information GPRS to Note MM Event operation	5.1.0	5.2.0	N4	TEI
29.002	458		R99	F	NP-020258	N4-020639	approved	Clarifications to Resume Call Handling	3.12.0	3.13.0	N4	TEI
29.002	459		Rel-4	A	NP-020258	N4-020640	approved	Clarifications to Resume Call Handling	4.7.0	4.8.0	N4	TEI
29.002	460		Rel-5	A	NP-020258	N4-020641	approved	Clarifications to Resume Call Handling	5.1.0	5.2.0	N4	TEI
29.010	048	1	Rel-4	F	NP-020254	N4-020502	Approved	LCS: Mapping BSSMAP-RANAP for request of	4.2.0	4.3.0	N4	LCS1
29.010	050	1	R99	F	NP-020254	N4-020503	Approved	LCS: clarification of mapping for Location Acquisition	3.7.0	3.8.0	N4	LCS
29.010	051	1	Rel-4	F	NP-020254	N4-020504	Approved	LCS: clarification of mapping for Location Acquisition	4.2.0	4.3.0	N4	LCS
29.010	052		Rel-4		NP-020259	N4-020521	approved	Check of NAM and Requesting Node Type on receipt of	4.2.0	4.3.0	N4	TEI4
29.010	053	1	R99	F	NP-020251	N4-020751	approved	Service Handover	3.7.0	3.8.0	N4	Handover
29.010	054	1	Rel-4	A	NP-020251	N4-020752	approved	Service Handover	4.2.0	4.3.0	N4	Handover
29.060	311		Rel-5	F	NP-020260	N4-020329	approved	Clarification on create PDP context for existing	5.1.0	5.2.0	N4	TEI5 (GTP enhancement)
29.060	312		R99	F	NP-020250	N4-020341	approved	Addition of parameter to Inter-SGSN RAU	3.12.0	3.13.0	N4	GTP enhancement

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.060	313		R99	F	NP-020250	N4-020328	approved	Correction on the handling of S field	3.12.0	3.13.0	N4	GTP enhancement
29.060	318	1	Rel-5	C	NP-020310		approved	Support of IPv4 and IPv6 node addresses in Core Network	5.1.0	5.2.0	N4	TEI5 (Separate)
29.060	319	1	Rel-5	C	NP-020257	N4-020705	approved	Reference to 3GPP TS 33.210 for protection of GTP	5.1.0	5.2.0	N4	SEC1-NDS
29.232	030	1	Rel-5	B	NP-020260	N4-020491	approved	GTT enhancement on Mc	5.1.0	5.2.0	N4	TEI5 (CSSPLIT)
29.232	032		Rel-5	A	NP-020260	N4-020391	approved	Update to TFO package to explicitly reference TS 26.103 for 3GPP	5.1.0	5.2.0	N4	TEI5 (CSSPLIT)
29.232	033	2	Rel-5	B	NP-020260	N4-020492	approved	CTM Text Transport package	5.1.0	5.2.0	N4	TEI5 (GTP enhancement)
29.232	034		Rel-5	F	NP-020260	N4-020586	approved	Allow the usage of logical port	5.1.0	5.2.0	N4	TEI5 (CSSPLIT)
29.232	035		Rel-4	F	NP-020249	N4-020643	approved	Correction Section 14.1.6 of 3GPP TS 29.332	4.4.0	4.5.0	N4	CSSPLIT
29.232	036		Rel-5	A	NP-020249	N4-020644	approved	Correction Section 14.1.6 of 3GPP TS 29.332	5.1.0	5.2.0	N4	CSSPLIT
23.003	046		Rel-5	F	NP-020253	N4-020698	postponed	SSN for IM-SSF	5.2.0		N4	IMS-Camel
29.002	415	5	Rel-5	B	NP-020253	N4-020739	postponed	CR29.002 for support of MAP Si interface	5.1.0		N4	IMS-Camel
29.002	443	1	Rel-5	B	NP-020253	N4-020697	postponed	R5 CR29.002 for IMS-CAMEL ATM	5.1.0		N4	IMS-Camel
29.060	318		Rel-5	C	NP-020261	N4-020618	revised	Support of IPv4 and IPv6 node addresses in Core Network	5.1.0		N4	TEI5 (Separate)
29.198-01	005	-	Rel-5	B	NP-020181	N5-020366	approved	Addition of support for Java API technology realisation	4.3.1	5.0.0	N5	OSA2
29.198-01	006	-	Rel-5	B	NP-020182	N5-020440	approved	Addition of support for WSDL realisation	4.3.1	5.0.0	N5	OSA2
29.198-01	007	-	Rel-5	F	NP-020184	N5-020493	approved	Adding the full naming convention for exceptions	4.3.1	5.0.0	N5	OSA2
29.198-01	008	-	Rel-5	F	NP-020184	N5-020506	approved	Correction of References in OSA specifications	4.3.1	5.0.0	N5	OSA2
29.198-01	009	-	Rel-5	D	NP-020184	N5-020520	approved	Addition of text describing the technology realisations of the Parlay/OSA	4.3.1	5.0.0	N5	OSA2
29.198-02	011	-	Rel-5	B	NP-020185	N5-020303	approved	Allowing the use of tel URL in TpAddressPlan	4.4.0	5.0.0	N5	OSA2
29.198-02	012	-	Rel-5	F	NP-020185	N5-020286	approved	Adding TpInt64 in order to align with the new Rel-5 TS 29.198-14	4.4.0	5.0.0	N5	OSA2
29.198-02	013	-	Rel-5	F	NP-020185	N5-020363	approved	Addition of undefined Data types: TpStringList and TpStringSet	4.4.0	5.0.0	N5	OSA2
29.198-02	014	-	Rel-5	B	NP-020181	N5-020367	approved	Addition of support for Java API technology realisation	4.4.0	5.0.0	N5	OSA2
29.198-02	015	-	Rel-5	B	NP-020182	N5-020388	approved	Addition of support for WSDL realisation	4.4.0	5.0.0	N5	OSA2
29.198-02	016	-	Rel-5	F	NP-020185	N5-020482	approved	Deletion of P_SET_LENGTH_EXCEEDED	4.4.0	5.0.0	N5	OSA2
29.198-02	017	-	Rel-5	F	NP-020185	N5-020483	approved	Removal of MIDL	4.4.0	5.0.0	N5	OSA2
29.198-02	018	-	Rel-5	F	NP-020185	N5-020487	approved	Revise the scope of TpSessionID and TpAssignmentID	4.4.0	5.0.0	N5	OSA2
29.198-02	019	-	Rel-5	F	NP-020185	N5-020511	approved	Deprecate P_ADDRESS_PLAN_MSMail	4.4.0	5.0.0	N5	OSA2
29.198-02	020	-	Rel-5	B	NP-020185	N5-020512	approved	Addition of support for an Exception Hierarchy	4.4.0	5.0.0	N5	OSA2
29.198-02	021	-	Rel-5	B	NP-020185	N5-020513	approved	Addition of type TpVersion in common data	4.4.0	5.0.0	N5	OSA2
29.198-03	030	-	Rel-4	F	NP-020179	N5-020471	approved	Solving the problem in the OSA Framework with method	4.4.0	4.5.0	N5	OSA1
29.198-03	031	-	Rel-4	F	NP-020179	N5-020494	approved	Adding missing mandatory method (authenticationSucceeded) to	4.4.0	4.5.0	N5	OSA1
29.198-03	032	-	Rel-5	F	NP-020186	N5-020364	approved	Remove redundant data type definition TpServiceSpecString	4.5.0	5.0.0	N5	OSA2
29.198-03	033	-	Rel-5	B	NP-020181	N5-020368	approved	Addition of support for Java API technology realisation	4.5.0	5.0.0	N5	OSA2
29.198-03	035	-	Rel-5	B	NP-020182	N5-020389	approved	Addition of support for WSDL realisation	4.5.0	5.0.0	N5	OSA2
29.198-03	036	-	Rel-5	F	NP-020186	N5-020401	approved	Clarify semantics of service properties of type BOOLEAN_SET	4.5.0	5.0.0	N5	OSA2
29.198-03	037	-	Rel-5	B	NP-020186	N5-020467	approved	Addition of version management support to the Framework (29.198-03) in	4.5.0	5.0.0	N5	OSA2
29.198-03	038	-	Rel-5	B	NP-020186	N5-020470	approved	Enhancements on subscription management error information	4.5.0	5.0.0	N5	OSA2
29.198-03	039	-	Rel-5	F	NP-020186	N5-020472	approved	Delete conflicting description of P_APPLICATION_NOT_ACTIVATED	4.5.0	5.0.0	N5	OSA2
29.198-03	040	-	Rel-5	D	NP-020186	N5-020485	approved	Note added for P_SERVICE_INSTANCE Choice Element Name	4.5.0	5.0.0	N5	OSA2
29.198-03	041	-	Rel-5	F	NP-020186	N5-020495	approved	Correcting the method descriptions for abortAuthentication and for	4.5.0	5.0.0	N5	OSA2
29.198-03	042	-	Rel-5	F	NP-020186	N5-020496	approved	Correcting the description of heartbeat failure	4.5.0	5.0.0	N5	OSA2

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.198-03	043	-	Rel-5	F	NP-020186	N5-020497	approved	Correcting erroneous FW<->Service instance sequence diagrams	4.5.0	5.0.0	N5	OSA2
29.198-03	044	-	Rel-5	F	NP-020186	N5-020498	approved	Correcting the scope of TpFwID, which currently is giving it false	4.5.0	5.0.0	N5	OSA2
29.198-04	035	-	Rel-4	F	NP-020180	N5-020462	approved	Correction to TpCallChargePlan	4.3.0	4.4.0	N5	OSA1
29.198-04	036	-	Rel-4	F	NP-020180	N5-020464	approved	Correction to CAMEL Service Property values	4.3.0	4.4.0	N5	OSA1
29.198-04	037	-	Rel-5	B	NP-020181	N5-020369	approved	Addition of support for Java API technology realisation	4.4.0	5.0.0	N5	OSA2
29.198-04	038	-	Rel-5	B	NP-020182	N5-020390	approved	Addition of support for WSDL realisation	4.4.0	5.0.0	N5	OSA2
29.198-04	039	-	Rel-5	B	NP-020187	N5-020453	approved	Addition of support for Emergency Telecommunications Service	4.4.0	5.0.0	N5	OSA2
29.198-04	040	-	Rel-5	B	NP-020183	N5-020454	approved	Addition of support for Network Controlled Notifications MPCC	4.4.0	5.0.0	N5	OSA2
29.198-04	041	-	Rel-5	F	NP-020187	N5-020461	approved	Changes to getNotification()	4.4.0	5.0.0	N5	OSA2
29.198-04	042	-	Rel-5	F	NP-020187	N5-020463	approved	Addition of P_UNSUPPORTED_MEDIA release cause to	4.4.0	5.0.0	N5	OSA2
29.198-04	043	-	Rel-5	F	NP-020187	N5-020465	approved	Addition of CAMEL Phase 4 Service Property values	4.4.0	5.0.0	N5	OSA2
29.198-04	044	-	Rel-5	F	NP-020187	N5-020466	approved	Addition of indication whether SCS supports initially multiple routeReqs in	4.4.0	5.0.0	N5	OSA2
29.198-04	045	-	Rel-5	F	NP-020187	N5-020474	approved	Explicit exception for continueProcessing when not in interrupted mode	4.4.0	5.0.0	N5	OSA2
29.198-04	046	-	Rel-5	F	NP-020187	N5-020476	approved	Indication needed that supervision will be ended when call or callLeg is	4.4.0	5.0.0	N5	OSA2
29.198-04	047	-	Rel-5	F	NP-020187	N5-020477	approved	Clarify ambiguous Supervision duration	4.4.0	5.0.0	N5	OSA2
29.198-04	048	-	Rel-5	F	NP-020187	N5-020478	approved	Detach/Attach request illegal during pending Attach/Detach request	4.4.0	5.0.0	N5	OSA2
29.198-04	049	-	Rel-5	F	NP-020187	N5-020479	approved	Correction of Multi-Party Call Control properties	4.4.0	5.0.0	N5	OSA2
29.198-04	050	-	Rel-5	F	NP-020187	N5-020499	approved	Correcting the sequence diagram descriptions in GCC and MPCC	4.4.0	5.0.0	N5	OSA2
29.198-04	051	-	Rel-5	F	NP-020187	N5-020500	approved	Correcting erroneous description of UI behaviour in call control	4.4.0	5.0.0	N5	OSA2
29.198-04	052	-	Rel-5	F	NP-020187	N5-020502	approved	Correcting the descriptions of sequence diagrams that don't match the	4.4.0	5.0.0	N5	OSA2
29.198-04	053	-	Rel-5	F	NP-020187	N5-020503	approved	Correcting erroneous references to GCC in MPCC	4.4.0	5.0.0	N5	OSA2
29.198-04	054	-	Rel-5	B	NP-020187	N5-020515	approved	Addition of the Multi-media APIs to Call control SCF (29.198-4)	4.4.0	5.0.0	N5	OSA2
29.198-04	055	-	Rel-5	F	NP-020187	N5-020518	approved	Updating Clause 4 for Release 5	4.4.0	5.0.0	N5	OSA2
29.198-04	056	-	Rel-5	D	NP-020188	N5-020519	approved	Spliting of 29.198-04 into 4 separate TSs (sub-parts)	4.4.0	5.0.0	N5	OSA2
29.198-05	009	-	Rel-5	B	NP-020181	N5-020370	approved	Addition of support for Java API technology realisation	4.4.0	5.0.0	N5	OSA2
29.198-05	010	-	Rel-5	D	NP-020189	N5-020377	approved	Improve the vague description of P_ID_NOT_FOUND	4.4.0	5.0.0	N5	OSA2
29.198-05	011	-	Rel-5	B	NP-020182	N5-020391	approved	Addition of support for WSDL realisation	4.4.0	5.0.0	N5	OSA2
29.198-05	012	-	Rel-5	F	NP-020189	N5-020475	approved	Detach call leg before playing announcement or collecting digits	4.4.0	5.0.0	N5	OSA2
29.198-05	013	-	Rel-5	F	NP-020189	N5-020481	approved	Delete P_INVALID_CRITERIA from sendInfoAndCollectReq()	4.4.0	5.0.0	N5	OSA2
29.198-05	014	-	Rel-5	B	NP-020183	N5-020489	approved	Addition of Support for Network Controlled Notifications UI	4.4.0	5.0.0	N5	OSA2
29.198-05	015	-	Rel-5	F	NP-020189	N5-020501	approved	Correcting erroneous description of UI behaviour in call control	4.4.0	5.0.0	N5	OSA2
29.198-06	009	-	Rel-5	B	NP-020181	N5-020371	approved	Addition of support for Java API technology realisation	4.4.0	5.0.0	N5	OSA2
29.198-06	010	-	Rel-5	B	NP-020182	N5-020392	approved	Addition of support for WSDL realisation	4.4.0	5.0.0	N5	OSA2
29.198-06	011	-	Rel-5	F	NP-020190	N5-020473	approved	Delete the repetitive description of P_APPLICATION_NOT_ACTIVATED	4.4.0	5.0.0	N5	OSA2
29.198-06	012	-	Rel-5	F	NP-020190	N5-020486	approved	Correcting type of assignmentID parameters from TpSessionID to	4.4.0	5.0.0	N5	OSA2
29.198-06	013	-	Rel-5	F	NP-020190	N5-020504	approved	Correcting erroneous references to Service Factory	4.4.0	5.0.0	N5	OSA2
29.198-07	006	-	Rel-5	B	NP-020182	N5-020393	approved	Addition of support for WSDL realisation	5.0.0	5.1.0	N5	OSA2
29.198-08	006	-	Rel-5	B	NP-020182	N5-020394	approved	Addition of support for WSDL realisation	4.4.0	5.0.0	N5	OSA2
29.198-08	007	-	Rel-5	B	NP-020183	N5-020490	approved	Addition of Support for Network Controlled Notifications DSC	4.4.0	5.0.0	N5	OSA2
29.198-08	008	-	Rel-5	F	NP-020192	N5-020505	approved	Adding missing text concerning the activity timer and criteria overlap	4.4.0	5.0.0	N5	OSA2
29.198-11	008	-	Rel-5	F	NP-020193	N5-020359	approved	Change to new Service Property P_MAX_ADDRESSES_PER_QUERY	4.3.0	5.0.0	N5	OSA2

Spec	CR	R	Ph.	Cat	NP tdoc	WG doc	TSG status	Subject	C_Ver	N_Ver	WG	Workitem
29.198-11	009	-	Rel-5	B	NP-020182	N5-020395	approved	Addition of support for WSDL realisation	4.3.0	5.0.0	N5	OSA2
29.198-11	010	-	Rel-5	B	NP-020183	N5-020491	approved	Addition of Support for Network Controlled Notifications AM	4.3.0	5.0.0	N5	OSA2
29.198-12	012	-	Rel-5	F	NP-020194	N5-020066	approved	Clarify the use of setCallback with charging	4.3.0	5.0.0	N5	OSA2
29.198-12	013	-	Rel-5	B	NP-020194	N5-020300	approved	Adding Service Properties for the Content Based Charging API	4.3.0	5.0.0	N5	OSA2
29.198-12	014	-	Rel-5	B	NP-020194	N5-020358	approved	Addition of support for interactive authorization of payments ("User	4.3.0	5.0.0	N5	OSA2
29.198-12	015	-	Rel-5	B	NP-020194	N5-020361	approved	Addition of support for Split Charging feature	4.3.0	5.0.0	N5	OSA2
29.198-12	016	-	Rel-5	B	NP-020181	N5-020372	approved	Addition of support for Java API technology realisation	4.3.0	5.0.0	N5	OSA2
29.198-12	017	-	Rel-5	B	NP-020182	N5-020396	approved	Addition of support for WSDL realisation	4.3.0	5.0.0	N5	OSA2
29.198-03	034	-	Rel-5	F	NP-020186	N5-020374	withdrawn	Delete description of P_APPLICATION_NOT_ACTIVATED conflicting	4.5.0	5.0.0	N5	OSA2

Note:- Updated from master Spec_status dbase on 03/07/02

456 CRs approved at TSG#16.

For latest detail please see the 3GPP specifications database at ftp://ftp.3gpp.org/Information/Databases/Spec_Status/

ANNEX B Tdoc List with Status for CN#16

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020140	2	AGENDA	Draft Agenda for CN#16 (Marco)	MCC	APPROVED
NP-020141	2	DAD	Allocation of documents to agenda items at start of meeting	CN V.chair	NOTED
NP-020142	2	DAD	Allocation of documents to agenda items at close of day 1	CN V.chair	NOTED
NP-020143	2	DAD	Allocation of documents to agenda items at close of day 2	CN V.chair	NOTED
NP-020144	2	DAD	Allocation of documents to agenda items at close of day 3	CN V.chair	NOTED
NP-020145	4.1	REPORT	Draft Meeting report from CN#15 (Jeju)	MCC	APPROVED
NP-020146	12	WORK PLAN	3GPP Work Plan	MCC	NOTED
NP-020147	12	WORK PLAN	3GPP Work Plan [Slide Presentation]	MCC	REVISED TO 0321
NP-020148	5.2	LS IN	SA1 Position Statement related to ITU-T request for information on activities related to Emergency Telecommunications Services (ETSI IS 1-0211001)	SA1	WITHDRAWN
NP-020149	5.1	LS IN	LS on 3GPP specific Diameter applications [N4-020732]	CN4	NOTED
NP-020150	5.1	LS IN	LS on Status of protocol work on Ze interface [N4-020769]	CN4	NOTED
NP-020151	5.2	LS IN	Response to the LS on "IPv6 update of stage 3 specifications" [S2-021521]	SA2	NOTED
NP-020152	5.2	LS IN	Response to email "NP-010710: AMR-WB TSs from SA4" [S3-020129]	SA3	WITHDRAWN
NP-020153	5.1	LS IN	Liaison Statement on "IPv6 update of stage 3 specifications" [N3-020361]	CN3	NOTED
NP-020154	5.2	LS IN	GERAN Review of CRs to 24.007 [GP-021150]	GERAN	NOTED
NP-020155	5.1	LS IN	Liaison Statement on 3GPP Network Domain Name usage for IMS [N1-021455]	CN1	NOTED
NP-020156	4.3	LIST	tdoc#1 - Bundle 2 and 3 RFC numbers from IETF	CN chair	NOTED
NP-020157	4.4	Correspondance	Harmonizing the IP Core Network	Chair, 3GPP2 TSG-N	NOTED
NP-020158	4.4	Presentation	3GPP2 IP Multimedia Domain	Chair, 3GPP2 TSG-N	NOTED
NP-020159	4.3	REPORT	IETF deliverable status preceding the CN#16 plenary	CN chair	NOTED
NP-020160	6.3.1	REPORT	Status Report for TSG CN WG3	CN3 Chair	NOTED
NP-020161	6.3.1	REPORT	CN3#22 Meeting Report	MCC	NOTED
NP-020162	6.3.1	REPORT	CN3#23 Meeting Report	MCC	NOTED
NP-020163	6.3.1	LS PACK	All LSs sent from CN3 since TSG CN#15 Meeting	MCC	NOTED
NP-020164	8.7	WID	Revised WID for Service Change and UDI Fallback [N3-020315]	CN3	APPROVED
NP-020165	9.1	WID	Revised WID on interworking between IMS and CS [N3-020521]	CN3	REVISED TO 0320
NP-020166	8.5	TS	TS 29.208 - End-to-end QoS signalling flows [N3-020523]	CN3	APPROVED
NP-020167	8.5	TS	TS 29.207 - Policy control over Go interface [N3-020524]	CN3	APPROVED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020168	8.7	TS	23.172 Technical Realization of Circuit Switched (CS) Multimedia Service; UDI/ RDI Fallback and Service Modification [N3-0203101]	CN3	APPROVED
NP-020169	8.7	CR Pack	CR Pack on SCUDIF	CN3	APPROVED
NP-020170	7.3	CR Pack	CR Pack on TEI [GPRS] Pack 1	CN3	REVISED TO 0295
NP-020171	7.3	CR Pack	CR Pack on TEI [GPRS] Pack 2	CN3	APPROVED
NP-020172	7.11	CR Pack	CR Pack on TEI [CS Data]	CN3	APPROVED
NP-020173	7.11	CR PACK	Change DHCPv6 internet-draft reference to RFC	Ericsson	WITHDRAWN
NP-020174	8.1	CR	Actions within the GGSN for IMS parameters sent in PDP context activation (revision of N3-020503)	Ericsson	WITHDRAWN
NP-020175	6.5.1	REPORT	Chairman's report from CN5 (slide presentation)	CN5 Chair	NOTED
NP-020176	6.5.1	LS OUT	LSs outgoing from CN5 between CN#15 and CN#16	CN5	NOTED
NP-020177	6.5.1	REPORT	Report of CN5#16, Sophia Antipolis, France, 8 - 12 April 2002 (N5-020180)	CN5	NOTED
NP-020178	6.5.1	REPORT	Draft Report of CN5#17, Budapest, Hungary, 13 - 17 May 2002 (N5-020327)	CN5 Chair	NOTED
NP-020179	7.10	CR	Rel-4 CRs 29.198-03	CN5	APPROVED
NP-020180	7.10	CR	Rel-4 CRs 29.198-04	CN5	APPROVED
NP-020181	8.2	CR	Rel-5 CRs 29.198-xy Addition of Support for Java API Technology Realisation	CN5	APPROVED
NP-020182	8.2	CR	Rel-5 CR 29.198-xy Addition of Support for WSDL Realisation	CN5	APPROVED
NP-020183	8.2	CR	Rel-5 CR 29.198-xy Addition of Support for Network Controlled Notifications MPCC	CN5	APPROVED
NP-020184	8.2	CR	Rel-5 CRs 29.198-01	CN5	APPROVED
NP-020185	8.2	CR	Rel-5 CRs 29.198-02	CN5	APPROVED
NP-020186	8.2	CR	Rel-5 CRs 29.198-03	CN5	PART APPROVED
NP-020187	8.2	CR	Rel-5 CRs 29.198-04	CN5	APPROVED
NP-020188	8.2	CR	Rel-5 CR 29.198-04 for splitting into 4 sub-parts	CN5	APPROVED
NP-020189	8.2	CR	Rel-5 CRs 29.198-05	CN5	APPROVED
NP-020190	8.2	CR	Rel-5 CRs 29.198-06	CN5	APPROVED
NP-020191	8.2	CR	Rel-5 CRs 29.198-07	CN5	NOT USED
NP-020192	8.2	CR	Rel-5 CRs 29.198-08	CN5	APPROVED
NP-020193	8.2	CR	Rel-5 CRs 29.198-11	CN5	APPROVED
NP-020194	8.2	CR	Rel-5 CRs 29.198-12	CN5	APPROVED
NP-020195	8.2	TS	Rel-5 Draft v2.0.0 TS 29.198-13 OSA API Part 13: Policy Management SCF	CN5	APPROVED
NP-020196	8.2	TS	Rel-5 Draft v2.0.0 TS 29.198-14 OSA API Part 14: Presence and Availability Management (PAM)	CN5	APPROVED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020197	8.2	TR	Rel-5 Draft v2.0.0 TR 29.998-04-04 Mapping for OSA; Part 4: Call Control Service Mapping; Subpart 4: <i>Multiparty Call Control - ISC</i>	CN5	APPROVED
NP-020198	6.2.1	REPORT	Status Report for TSG CN WG2	CN2 Chair	NOTED
NP-020199	6.2.1	REPORT	CN2#23 Meeting Report	MCC	NOTED
NP-020200	6.2.1	REPORT	CN2#24 Draft Meeting Report	MCC	NOTED
NP-020201	6.2.1	LS PACK1	LSs sent from CN2 since TSG CN#15 Meeting	CN2	NOTED
NP-020202	7.1	CR PACK1	CRs to R97 WI CAMEL2, Pack 1	CN2	APPROVED
NP-020203	7.1	CR PACK2	CRs to R99 WI CAMEL3, Pack 2	CN2	APPROVED
NP-020204	7.1	CR PACK3	CRs to R99 WI CAMEL3, Pack 3	CN2	APPROVED
NP-020205	8.3	CR	Composite changes for CAMEL phase 4, Stage 2(TS 23.078 for Rel-5)	CN2	APPROVED
NP-020206	8.3	CR	Composite changes for CAMEL phase 4, Stage 3(TS 29.078 for Rel-5)	CN2	APPROVED
NP-020207	8.1	TS	Draft TS 23.278 v 1.2.0(CAMEL) Phase 4 - Stage 2 IM CN Interworking	CN2	NOTED
NP-020208	8.1	WID	Work Item Description for the Support of CAMEL by the IMS	CN2	REVISED TO 0305
NP-020209	6.1.1	INFO	CN1 IMS open items list	CN1 Chairman	REVISED TO 0278
NP-020210	6.1.1	REPORT	Status Report for TSG CN WG1	CN1 Chair	REVISED TO 0294
NP-020211	6.1.1	REPORT	CN1#23 Meeting Report	MCC	NOTED
NP-020212	6.1.1	REPORT	CN1#SIPadhoc0204 Meeting Report	MCC	NOTED
NP-020213	6.1.1	REPORT	CN1#24 Meeting Report	MCC	NOTED
NP-020214	6.1.1	LS PACK 1	All LSs sent from CN1 since TSG CN#15 Meeting (Pack 1)	MCC	NOTED
NP-020215	6.1.1	LS PACK 2	All LSs sent from CN1 since TSG CN#15 Meeting (Pack 2)	MCC	NOTED
NP-020216	7.2	CR PACK	CR to R99 (with mirror CRs) on Work Item Security towards 24.008	CN1	APPROVED
NP-020217	7.3	CR PACK	CR to R99, Rel-4 and Rel-5 on Work Item GPRS towards 24.008	CN1	APPROVED
NP-020218	7.6	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.007 and 23.009	CN1	APPROVED
NP-020219	7.6	CR PACK	CRs to R99 (with mirror CRs) on Work Item GSM/UMTS interworking towards 24.008	CN1	APPROVED
NP-020220	7.7	CR PACK	CRs to Rel-4 (with mirror CR) on Work Item TrFO towards 24.008	CN1	APPROVED
NP-020221	7.8	CR PACK	CR to Rel-4 (with mirror CR) on Work Item CSSPLIT towards 24.008	CN1	APPROVED
NP-020222	7.11	CR PACK	CRs to R99 (with mirror CRs) on Work Item TEI towards 24.007 and 09.94 (29.994)	CN1	APPROVED
NP-020223	7.11	CR PACK	CRs to R99 (with mirror CRs) on Work Item TEI towards 24.008 and 29.018	CN1	APPROVED
NP-020224	7.12	CR PACK	CRs to Rel-4 (with one mirror CR) on Work Item TEI4 towards various TSs	CN1	APPROVED
NP-020225	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 24.008	CN1	APPROVED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020226	8.1	CR PACK	CRs to Rel-5 on Work Item IMS-CCR towards 23.218	CN1	APPROVED
NP-020227	8.1	CR PACK-1	CRs to Rel-5 on Work Item IMS-CCR towards 24.228	CN1	PART APPROVED
NP-020228	8.1	CR PACK-2	CRs to Rel-5 on Work Item IMS-CCR towards 24.228	CN1	APPROVED
NP-020229	8.1	CR PACK-3	CRs to Rel-5 on Work Item IMS-CCR towards 24.228	CN1	APPROVED
NP-020230	8.1	CR PACK-1	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	PART APPROVED
NP-020231	8.1	CR PACK-2	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	PART APPROVED
NP-020232	8.1	CR PACK-3	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	APPROVED
NP-020233	8.1	CR PACK-4	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	PART APPROVED
NP-020234	8.1	CR PACK-5	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	PART APPROVED
NP-020235	8.1	CR PACK-6	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	APPROVED
NP-020236	8.1	CR PACK-7	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	APPROVED
NP-020237	8.1	CR PACK-8	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	APPROVED
NP-020238	8.1	CR PACK-9	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	APPROVED
NP-020239	8.1	CR PACK-10	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	APPROVED
NP-020240	8.1	CR PACK-11	CRs to Rel-5 on Work Item IMS-CCR towards 24.229	CN1	APPROVED
NP-020241	8.7	CR PACK	CR to Rel-5 on Work Item SCUDIF towards 24.008	CN1	APPROVED
NP-020242	8.8	CR PACK	CRs to Rel-5 on Work Item TEI5 towards 24.008	CN1	APPROVED
NP-020243	8.8	CR PACK	CRs to Rel-5 on Work Item TEI5 towards 23.009 and 23.122	CN1	PART APPROVED
NP-020244	9.8	WID	Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols.	CN1	REVISED TO 0323
NP-020245	6.4.1	REPORT	CN4 meeting reports after CN#15	CN4	NOTED
NP-020246	6.4.1	LS PACK	CN4 Output LSs after CN#15	CN4	NOTED
NP-020247	8.9	CR pack	AMRWB	CN4	APPROVED
NP-020248	8.3	CR pack	Camel Phase 4	CN4	APPROVED
NP-020249	7.8	CR pack	Enable Bearer independent CS architecture	CN4	APPROVED
NP-020250	7.3	CR pack	GPRS	CN4	APPROVED
NP-020251	7.5	CR pack	Handover	CN4	APPROVED
NP-020252	8.1	CR pack	Provisioning of IP-based multimedia services	CN4	APPROVED
NP-020253	8.1	CR pack	Provisioning of IP-based multimedia services in Camel4	CN4	
NP-020254	7.4	CR pack	Location services	CN4	APPROVED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020255	8.4	CR pack	Location services	CN4	APPROVED
NP-020256	7.9	CR pack	Multicall	CN4	APPROVED
NP-020257	8.6	CR pack	Security enhancements	CN4	APPROVED
NP-020258	7.11	CR pack	Technical Enhancement and Improvements	CN4	APPROVED
NP-020259	7.11	CR pack	Technical Enhancement and Improvements	CN4	APPROVED
NP-020260	8.8	CR pack	Technical Enhancement and Improvements	CN4	APPROVED
NP-020261	8.8	CR	Support of IPv4 and IPv6 node addresses in Core Network	CN4	REVISED TO 0310
NP-020262	8.9	DISCUSSION DOC	Discussion paper on the transition mechanism to IPv6	Lucent Technologies	NOTED
NP-020263	8.1	DISCUSSION DOC	Open Issues for CAMEL / IMS	Lucent Technologies	WITHDRAWN
NP-020264	8.1	TS for approval	3GPP TS 29.228 on IP Multimedia (IM) Subsystem Cx and Dx Interfaces; Signalling flows and message contentsVersion 2.0.0 for approval	CN4	APPROVED
NP-020265	8.1	TS for approval	3GPP TS 29.229 on Cx and Dx Interfaces based on the Diameter protocol; Protocol detailsVersion 2.0.0 for approval	CN4	APPROVED
NP-020266	8.1	TS for approval	3GPP TS 29.329 on Sh Interface based on the Diameter protocol; Protocol detailsVersion 2.0.1 for approval	CN4	APPROVED
NP-020267	8.9	CR pack	Intra Domain Connection of RAN Nodes to multiple CN nodes	CN4	APPROVED
NP-020268	7.11	CR	CR 29.002-397r3 on Check of NAM and Requesting Node Type on receipt of SendAuthenticationInfo	CN4	APPROVED
NP-020269	9.9	WID	Work item description: Interworking of CS user plane between 3GPP and external PLMN/PSTN/ISDN	CN4	APPROVED
NP-020270	7.4	CR	Indication of support of LCS via the PS domain in lu-mode	Siemens	REVISED TO 0300
NP-020271	7.4	CR	Indication of support of LCS via the PS domain in lu-mode	Siemens	REVISED TO 0316
NP-020272	6.4.1	REPORT	Status report from CN4	CN4 chairman	NOTED
NP-020273	8.8	CR	Addition of missing code point for 8-PSK Half Rate AMR	Ericsson LM	REVISED TO 0292
NP-020274	4.4	Correspondance	An Open Letter to the Chairmen of 3GPP & 3GPP2	OHG	NOTED
NP-020275	4.4	Correspondance	An Open Letter to the Chairmen of 3GPP & 3GPP2	Vendors	NOTED
NP-020276	8.1	CR	Clarification of GPRS aspects	Ericsson	WITHDRAWN
NP-020277	8.1	TS for approval	3GPP TS 29.328 on IP Multimedia (IM) Subsystem Sh Interface; Signalling flows and message contentsVersion 2.0.0 for approval	CN4	APPROVED
NP-020278	6.1.1	INFO	CN1 IMS open items list	CN1 Chairman	NOTED
NP-020279	11	[CR]	CR 010 to 21.101: "Correction to list of specs"	MCC, JMM	NOTED
NP-020280	11	[CR]	CR 007 to 21.102: "Correction to list of specs"	MCC, JMM	NOTED
NP-020281	11	TR	21.103 v2.0.0	MCC, JMM	NOTED
NP-020282	11	[CR]	CR 006 to 01.01: "GSM Release 1999 specifications."	MCC, JMM	NOTED
NP-020283	11	[CR]	CR 005 to 41.102: "GSM Release 4 Specifications"	MCC, JMM	NOTED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020284	11	TR	41.103 v2.0.0	MCC, JMM	NOTED
NP-020285	11	LIST	Specs status list prior to TSGs#16	MCC, JMM	NOTED
NP-020286	11	LIST	List of specs / releases	MCC, JMM	NOTED
NP-020287	6.6	DISCUSSION DOC	Q.1741.2 VERSION 3.0 OUTPUT FROM THE SSG MEETING AT OTTAWA.	ITU-T	NOTED
NP-020288	8.1	CR	Adding security parameters to the call flows	Nokia et al.	APPROVED
NP-020289	7.4	CR	Indication of support of LCS via the PS domain in lu-mode	Siemens	REVISED TO 0301
NP-020290	10.1	DISCUSSION DOC	Organisation of work in TSG-CN after Release 5	CN vice-chairman	NOTED
NP-020291	6.6	REPORT	ITU-T Ad Hoc report	Ad hoc coord.	WITHDRAWN
NP-020292	8.8	CR	Addition of missing code point for 8-PSK Half Rate AMR	Ericsson LM	REVISED TO 0311
NP-020293	10.5	CALENDAR	3GPP2 meeting schedule	3GPP2	NOTED
NP-020294	6.1.1	REPORT	Status Report for TSG CN WG1	CN1 Chair	NOTED
NP-020295	7.3	CR Pack	CR Pack on TEI [GPRS] Pack 1	CN3	APPROVED
NP-020296	8.1	CR	CR to 24.228 on SS#1c update	Nokia, Siemens	REVISED TO 0309
NP-020297	8.1	CR	CR to 24.228 on MO#1b and MT#1b update	Nokia, Siemens	APPROVED
NP-020298	10.5	CALENDAR	3GPP meeting schedule for 2003	MCC	REVISED TO 0318
NP-020299	4.4	LS OUT	LS to SA on 3GPP-3GPP2 Harmonisation		REVISED TO 0302
NP-020300	7.4	CR	Indication of support of LCS via the PS domain in lu-mode	Siemens	APPROVED
NP-020301	7.4	CR	Indication of support of LCS via the PS domain in lu-mode	Siemens	APPROVED
NP-020302	4.4	LS OUT	LS to SA on 3GPP-3GPP2 Harmonisation		REVISED TO 0304
NP-020303	4.4	REPORT	PCG Draft report		NOTED
NP-020304	4.4	LS OUT	LS to SA on 3GPP-3GPP2 Harmonisation		APPROVED
NP-020305	8.1	WID	Work Item Description for the Support of CAMEL by the IMS	CN2	APPROVED
NP-020306	8.4	DISCUSSION DOC	Open issues for TS 29.208	Lucent	NOTED
NP-020307	8.4	DISCUSSION DOC	Open issues for TS 29.207	Lucent	NOTED
NP-020308	4.4	LS OUT	LS on coordination of SDO input to ITU-T Q-1741.2	ITU-T coordination	REVISED TO 0322
NP-020309	8.1	CR	CR to 24.228 on SS#1c update	Nokia, Siemens	APPROVED
NP-020310	8.8	CR	Support of IPv4 and IPv6 node addresses in Core Network	CN4	APPROVED
NP-020311	8.8	CR	Addition of missing code point for 8-PSK Half Rate AMR	Ericsson LM	APPROVED
NP-020312	8.1	CR	CRs on Asserted Identity	Lucent technologies	APPROVED

TDoc #	Agenda	Type	Tdoc Title	Source	Status
NP-020313	10.4	CR	Proposed CR cover sheet	MCC	ENDORSED
NP-020314	8.1	CR	CR 24.229 on "update and manyfoks RFC number"	Lucent technologies	APPROVED
NP-020315	8.1	CR	CR 24.229 on "Media-Authorization header corrections"	Lucent technologies	APPROVED
NP-020316	8.1	CR	MO, S-S, MT#1a reference flow update	Nokia, Ericsson, ^{MMMO2}	APPROVED
NP-020317	8.1	CR	Content of FROM/TO headers 24.228 CR 043R1	Nokia, Ericsson, ^{MMMO2}	APPROVED
NP-020318	10.5	CALENDAR	3GPP meeting schedule for 2003	MCC	NOTED
NP-020319	12	WORK PLAN	3GPP Work Plan [Slide Presentation]	MCC	NOTED
NP-020320	9.1	WID	Revised WID on interworking between IMS and CS [N3-020521]	CN3	APPROVED
NP-020321	12	WORK PLAN	3GPP Work Plan [Slide Presentation]	MCC	REVISED to 0321
NP-020322	4.4	LS OUT	LS on coordination of SDO input to ITU-T Q.1741.2	ITU-T coordination	APPROVED
NP-020323	9.8	WID	Support of the Multimedia Broadcast Multicast Service (MBMS) in CN protocols.	CN1	APPROVED

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History

Document History	
7 th June 2002	DRAFT v0.3.0 send to TSG_CN Officials for comments
12 th June 2002	DRAFT v1.0.0 Presented to TSG-SA#16 (SP-020368)
19 th June 2002	<p>DRAFT v1.0.1 dispatched to the TSG-CN mail exploder for comments.</p> <p>Comments to be addressed to:</p> <p>Mr. David Boswarthick, 3GPP TSG CN MCC Support MCC - ETSI Secrétariat Tel :+33 (0)4 92 94 42 78 E-mail: david.boswarthick@ETSI.fr</p> <p>A deadline of 2 weeks was given to the CN delegates for e-mail comments on the draft report.</p> <p>E-mail comments back by 5th July 2002</p>
23 rd July 2002	DRAFT v1.1.1 (with rev marks placed to FTP server)
Sept. 2002	<i>Final v2.0.0 approved at TSG#17 Meeting in Biarritz – Made version 3.0.0 and placed to server as the official meeting report.</i>